Yahoo Group Archive: UHFSDR

These Yahoo Groups messages were archived in WARC format by ArchiveTeam in 2018. This PDF was generated by Digital Library of Amateur Radio & Communications from the WARC files in 2026.

Date span: 2011-01-03 through 2018-03-02, plus 4 undated messages

Source WARC: uhfsdr.UP3TXH1.warc.gz

Source item: https://archive.org/details/yahoo-groups-2018-09-10T20-13-08Z-3a98f1

Messages included in this PDF: 2404

Messages omitted as spam from this PDF: 6

Yahoo replaced the domain portions of email addresses with @... in the archived messages. Characters lost in Yahoo's archived text appear as ?.

Messages are presented in ascending Yahoo message-ID order. Gaps indicate records absent from the source WARC or messages omitted from this PDF as spam.

1. Welcome

Yahoo group: UHFSDR
Date: 2011-01-03 09:34:21 UTC
From: brainerdd
Topic: 1 Message: 1

Welcome to the UHFSDR Group. This is for discussing my UHFSDR transceiver board.
I just ran out of parts for the mini-kits and have ordered more. Digikey is fast(2 or 3 days), Minicircuits and Coilcraft are slower - 7 to 14 days.
Also, all my in stock boards are spoken for. Just ordered another 100. That takes about 2 weeks for production and delivery.

Dave - WB6DHW
<http://wb6dhw.com>

2. New file uploaded to UHFSDR

Yahoo group: UHFSDR
Date: 2011-01-03 20:50:18 UTC
From: UHFSDR@yahoogroups.com
Topic: 2 Message: 2

```
Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the UHFSDR
group.

File : /UHFSDR Documentation /LPT connections.pdf
Uploaded by : brainerdd <brainerd@...>
Description : Parallel port connections for PowerSDR-IQ

You can access this file at the URL:
http://groups.yahoo.com/group/UHFSDR/files/UHFSDR%20Documentation%20/LPT%20connections.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

brainerdd <brainerd@...>
```

3. hello

Yahoo group: UHFSDR
Date: 2011-01-04 03:11:47 UTC
From: seth_otherpower
Topic: 3 Message: 3

Thank you for letting me join. hope to have the funds to buy a full kit sooner later.

I suppose there,s no list of usb sound card's with stereo inputs??

4. Re: hello

Yahoo group: UHFSDR
Date: 2011-01-04 03:32:43 UTC
From: seth_otherpower
Topic: 3 Message: 4

Sorry for listing ebay listingS 200469366766 is a dual for 10$$ ... any thoughts?

--- In UHFSDR@yahoogroups.com, "seth_otherpower" <Patriot121@...> wrote:
>
> Thank you for letting me join. hope to have the funds to buy a full kit sooner later.
>
> I suppose there,s no list of usb sound card's with stereo inputs??
>

5. Re: Welcome

Yahoo group: UHFSDR
Date: 2011-01-04 22:11:08 UTC
From: w0fms
Topic: 1 Message: 5

I'm quite happy to see that there is that much interest in the project that you can order another 100 boards! Another fun toy to work hard to get done "on the side". :O)

Fred W0FMS

--- In UHFSDR@yahoogroups.com, "brainerdd" <brainerd@...> wrote:
>
> Welcome to the UHFSDR Group. This is for discussing my UHFSDR transceiver board.
> I just ran out of parts for the mini-kits and have ordered more. Digikey is fast(2 or 3 days), Minicircuits and Coilcraft are slower - 7 to 14 days.
> Also, all my in stock boards are spoken for. Just ordered another 100. That takes about 2 weeks for production and delivery.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>

6. Re: [UHFSDR] Re: hello

Yahoo group: UHFSDR
Date: 2011-01-05 03:01:25 UTC
From: Grant Diffey
Topic: 3 Message: 6

There is also the SDR-widget.

http://www.yoyodyneconsulting.ca/pages/SDR-Widget-lite.html

I've been thinking that combining that and a UHFSDR might be interesting as the SDR-Widget provides some control lines for managing the SIS570 and stuff but it's not cheap.

Grant.
VK3FBAE

On Tue, Jan 4, 2011 at 2:32 PM, seth_otherpower <Patriot121@...> wrote:

>
>
> Sorry for listing ebay listingS 200469366766 is a dual for 10$$ ... any
> thoughts?
>
>
> --- In UHFSDR@yahoogroups.com <UHFSDR%40yahoogroups.com>,
> "seth_otherpower" <Patriot121@...> wrote:
> >
> > Thank you for letting me join. hope to have the funds to buy a full kit
> sooner later.
> >
> > I suppose there,s no list of usb sound card's with stereo inputs??
> >
>
>
>

7. BOM

Yahoo group: UHFSDR
Date: 2011-01-05 08:04:43 UTC
From: Pascal
Topic: 7 Message: 7

Hi, Are all the components listed in the last BOM included in the kit ? - Thanks

8. Re: [UHFSDR] BOM

Yahoo group: UHFSDR
Date: 2011-01-05 09:22:01 UTC
From: Dave - WB6DHW
Topic: 7 Message: 8

They will be in the full kit to be offered by Silver Fox. The minikit only includes the hard to get components(but not the Si570).

Dave - WB6DHW
<http://wb6dhw.com>

On 1/5/2011 12:04 AM, Pascal wrote:
> Hi, Are all the components listed in the last BOM included in the kit ? - Thanks
>
>
>

9. New file uploaded to UHFSDR

Yahoo group: UHFSDR
Date: 2011-01-06 19:42:26 UTC
From: UHFSDR@yahoogroups.com
Topic: 2 Message: 9

```
Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the UHFSDR
group.

File : /UHFSDR Documentation /UHFSDR_BOM.xls
Uploaded by : brainerdd <brainerd@...>
Description : BOM

You can access this file at the URL:
http://groups.yahoo.com/group/UHFSDR/files/UHFSDR%20Documentation%20/UHFSDR_BOM.xls

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

brainerdd <brainerd@...>
```

10. BOM

Yahoo group: UHFSDR
Date: 2011-01-06 19:44:32 UTC
From: brainerdd
Topic: 7 Message: 10

I just uploaded the correct BOM. The BOM that was in the files area was for the pre-production board.

Dave - WB6DHW
<http://wb6dhw.com>

11. Full Kit

Yahoo group: UHFSDR
Date: 2011-01-08 14:30:18 UTC
From: dl2vt
Topic: 11 Message: 11

is there somewhere a full kit including everything you need building the UHFSDR?
73´s Dieter

12. Re: [UHFSDR] Full Kit

Yahoo group: UHFSDR
Date: 2011-01-08 15:52:12 UTC
From: Sid Boyce
Topic: 11 Message: 12

alan.r.hill@... is preparing to supply the full kit and the
pricing. The discourse is taking place on the softrock40 group.
73 ... Sid.

On 08/01/11 14:30, dl2vt wrote:
> is there somewhere a full kit including everything you need building the
> UHFSDR?
> 73?s Dieter
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

13. Re: [UHFSDR] Full Kit

Yahoo group: UHFSDR
Date: 2011-01-08 17:27:54 UTC
From: Dave - WB6DHW
Topic: 11 Message: 13

Dieter:
Yes, Alan, The Silver Fox, is preparing a full parts kit for the UHFSDR. He is in the process of ordering parts now. He will announce availability in the SOftrock40 and the UHFSDR Yahoo group. Also, I will put a link on my For_Sale page.

Dave - WB6DHW
<http://wb6dhw.com>

On 1/8/2011 6:30 AM, dl2vt wrote:
> is there somewhere a full kit including everything you need building the UHFSDR?
> 73?s Dieter
>
>
>
>

14. Re: Full Kit

Yahoo group: UHFSDR
Date: 2011-01-11 21:37:05 UTC
From: fishsqezr
Topic: 11 Message: 14

Hello all,

Will there be an option of a kit that includes all the parts EXCEPT those supplied by Dave in his mini-kit? Some of us may have gotten the PCBs and mini-kit but haven't done the rest of the part ordering yet.

Thanks, Jay - NJ0M

--- In UHFSDR@yahoogroups.com, Dave - WB6DHW <brainerd@...> wrote:
>
> Dieter:
> Yes, Alan, The Silver Fox, is preparing a full parts kit for the UHFSDR. He
> is in the process of ordering parts now. He will announce availability in the
> SOftrock40 and the UHFSDR Yahoo group. Also, I will put a link on my For_Sale page.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>

15. Re: [UHFSDR] Re: Full Kit

Yahoo group: UHFSDR
Date: 2011-01-11 21:49:12 UTC
From: Fernando Krouwel
Topic: 11 Message: 15
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Jay, good evening:

Very good idea.

It´s my case.

I purchased (and already received) the mini kit + PCB, but I still didn´t start purchasing the remaining components, so, I am specially interested about.

73´s
Fernando - PY2ETT

----- Original Message -----
From: fishsqezr
To: UHFSDR@yahoogroups.com
Sent: Tuesday, January 11, 2011 7:37 PM
Subject: [UHFSDR] Re: Full Kit

Hello all,

Will there be an option of a kit that includes all the parts EXCEPT those supplied by Dave in his mini-kit? Some of us may have gotten the PCBs and mini-kit but haven't done the rest of the part ordering yet.

Thanks, Jay - NJ0M

--- In UHFSDR@yahoogroups.com, Dave - WB6DHW <brainerd@...> wrote:
>
> Dieter:
> Yes, Alan, The Silver Fox, is preparing a full parts kit for the UHFSDR. He
> is in the process of ordering parts now. He will announce availability in the
> SOftrock40 and the UHFSDR Yahoo group. Also, I will put a link on my For_Sale page.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.449 / Virus Database: 271.1.1/3372 - Release Date: 01/10/11 19:34:00

16. Are additional RF filters needed?

Yahoo group: UHFSDR
Date: 2011-01-14 09:51:52 UTC
From: Rob
Topic: 16 Message: 16

Hi,

I've had a look through the uhfsdr operation doc and thought I had understood how it works(!). So I didn't understand the need for additional external filters that was discussed on the softrock group.

I apologise if this is obvious to everyone except me but could you please explain?

Thanks
Rob

http://groups.yahoo.com/group/softrock40/message/51079

Re: [softrock40] Re: UHFSDR Full Kits

Siven:
True. The UHFSDR does not include filters. You will need band pass filters for receive. For transmit, you will need either band pass filters or low pass filters.

Dave - WB6DHW
<http://wb6dhw.com>

On 1/1/2011 12:48 AM, Sivan wrote:
> Alan,
>
> Even with the full kits, actually using it will require an external set of bandpass filters, right? Or did I miss something?
>
> Thanks, Sivan
>

17. Re: [UHFSDR] Are additional RF filters needed?

Yahoo group: UHFSDR
Date: 2011-01-14 10:34:44 UTC
From: Dave - WB6DHW
Topic: 16 Message: 17

Rob:
On receive, DBM's will respond to odd harmonics of the LO. If you have no strong signals on those frequencies, you can get away without the band pass filter on receive. On transmit, there will also be some odd harmonic energy present. In order to comply with the FCC requirements, you will need the low pass filters on the RF output.

Dave - WB6DHW
<http://wb6dhw.com>

On 1/14/2011 1:51 AM, Rob wrote:
> Hi,
>
> I've had a look through the uhfsdr operation doc and thought I had understood how it works(!). So I didn't understand the need for additional external filters that was discussed on the softrock group.
>
> I apologise if this is obvious to everyone except me but could you please explain?
>
> Thanks
> Rob
>
> http://groups.yahoo.com/group/softrock40/message/51079
>
> Re: [softrock40] Re: UHFSDR Full Kits
>
> Siven:
> True. The UHFSDR does not include filters. You will need band pass filters
> for receive. For transmit, you will need either band pass filters or low pass
> filters.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 1/1/2011 12:48 AM, Sivan wrote:
>> Alan,
>>
>> Even with the full kits, actually using it will require an external set of
> bandpass filters, right? Or did I miss something?
>> Thanks, Sivan
>>
>
>

18. mixer output and diplexer

Yahoo group: UHFSDR
Date: 2011-01-14 11:52:11 UTC
From: marcolanie
Topic: 18 Message: 18

Hi
YASQ : yet another stupid question :
as stated in the operation manual : "The desired IF outputs are from DC to the sound card sampling frequency..."

so far, so good
but

"Following the 6dB pad is a diplexer with a 50KHz cut-off"// with "a near 50 ohm path to ground for all signals above 50 Khz" and another cell of the diplexer that "pass all signals below 50 Khz to the following low noise audio amp".

now the stupid question : why 50 KHz (and not something slightly over 192KHz), or did I mix two different ideas concerning the value of the "IF" and the bandwidth of the audio processor ?

Marc

19. Re: [UHFSDR] mixer output and diplexer

Yahoo group: UHFSDR
Date: 2011-01-14 13:14:40 UTC
From: Marcus D. Leech
Topic: 18 Message: 19

On 01/14/2011 06:52 AM, marcolanie wrote:
>
>
> Hi
> YASQ : yet another stupid question :
> as stated in the operation manual : "The desired IF outputs are from
> DC to the sound card sampling frequency..."
>
> so far, so good
> but
>
> "Following the 6dB pad is a diplexer with a 50KHz cut-off"// with "a
> near 50 ohm path to ground for all signals above 50 Khz" and another
> cell of the diplexer that "pass all signals below 50 Khz to the
> following low noise audio amp".
>
> now the stupid question : why 50 KHz (and not something slightly over
> 192KHz), or did I mix two different ideas concerning the value of the
> "IF" and the bandwidth of the audio processor ?
>
> Marc
>
Assuming 192KHz sound card sampling, then each phase (I and Q) should be
cut-off at somewhere
below 96KHz, in order not to get aliasing. But most "garden variety"
sound cards are 96KHz, so
you want to cut off somewhere around 48KHz.

>

--
Principal Investigator
Shirleys Bay Radio Astronomy Consortium
http://www.sbrac.org

20. LO and phase-splitter

Yahoo group: UHFSDR
Date: 2011-01-14 13:17:21 UTC
From: Marcus D. Leech
Topic: 20 Message: 20

So, the LO on the UHFSDR operates at twice the desired frequency, and goes into a phase-splitter
based on a pair of D flops. So I have two questions:

o How does the phase splitter produce 90-degree phasing
o The result is a square-wave, not a sinusoid, so don't you end up with odd harmonics in the
output spectrum of the the mixers?

Cheers
Marcus

--
Principal Investigator
Shirleys Bay Radio Astronomy Consortium
http://www.sbrac.org

21. RE: [UHFSDR] Are additional RF filters needed?

Yahoo group: UHFSDR
Date: 2011-01-14 14:16:06 UTC
From: MIKE DURKIN
Topic: 16 Message: 21

So if I wanted to use the third harmonic, to Rx/Tx on 440Mhz - lo would be set at 293.33mhz (and bandpass 440 - 480Mhz)?? Can the software be set for a multiplyer of 1.5.. ... ... and I'm not so sure the frequency shifting would be linear .

Mike
KC7NOA

To: UHFSDR@yahoogroups.com
From: brainerd@wildblue.net
Date: Fri, 14 Jan 2011 02:34:44 -0800
Subject: Re: [UHFSDR] Are additional RF filters needed?

Rob:

On receive, DBM's will respond to odd harmonics of the LO. If you have no

strong signals on those frequencies, you can get away without the band pass

filter on receive. On transmit, there will also be some odd harmonic energy

present. In order to comply with the FCC requirements, you will need the low

pass filters on the RF output.

Dave - WB6DHW

<http://wb6dhw.com>

On 1/14/2011 1:51 AM, Rob wrote:

> Hi,

>

> I've had a look through the uhfsdr operation doc and thought I had understood how it works(!). So I didn't understand the need for additional external filters that was discussed on the softrock group.

>

> I apologise if this is obvious to everyone except me but could you please explain?

>

> Thanks

> Rob

>

> http://groups.yahoo.com/group/softrock40/message/51079

>

> Re: [softrock40] Re: UHFSDR Full Kits

>

> Siven:

> True. The UHFSDR does not include filters. You will need band pass filters

> for receive. For transmit, you will need either band pass filters or low pass

> filters.

>

> Dave - WB6DHW

> <http://wb6dhw.com>

>

> On 1/1/2011 12:48 AM, Sivan wrote:

>> Alan,

>>

>> Even with the full kits, actually using it will require an external set of

> bandpass filters, right? Or did I miss something?

>> Thanks, Sivan

>>

>

>

22. Re: [UHFSDR] mixer output and diplexer

Yahoo group: UHFSDR
Date: 2011-01-14 20:33:06 UTC
From: Dave - WB6DHW
Topic: 18 Message: 22

Marc:
That should say the desired IF outputs are from DC to plus and minus 1/2 the sound card sampling frequency. The 50 KHz cutoff was chosen for a 96 KHz sampling frequency. If using 192 KHz, then the cut-off should be about 100 KHz.

Dave - WB6DHW
<http://wb6dhw.com>

On 1/14/2011 3:52 AM, marcolanie wrote:
> Hi
> YASQ : yet another stupid question :
> as stated in the operation manual : "The desired IF outputs are from DC to the sound card sampling frequency..."
>
> so far, so good
> but
>
> "Following the 6dB pad is a diplexer with a 50KHz cut-off"// with "a near 50 ohm path to ground for all signals above 50 Khz" and another cell of the diplexer that "pass all signals below 50 Khz to the following low noise audio amp".
>
>
> now the stupid question : why 50 KHz (and not something slightly over 192KHz), or did I mix two different ideas concerning the value of the "IF" and the bandwidth of the audio processor ?
>
> Marc
>
>
>
>

23. Re: [UHFSDR] LO and phase-splitter

Yahoo group: UHFSDR
Date: 2011-01-14 20:41:52 UTC
From: Dave - WB6DHW
Topic: 20 Message: 23

Marcus:
Both the Q and Qnot outputs (they are 180 degrees apart) of the Si570 are used. When divided by 2, they become 90 degrees apart since the time from the Q divided by 2 going high and the Q not divided by 2 going high stays the same and the frequency is 1/2, then the phase difference is also divided by 2. DBM's produce odd harmonics even if driven by a sine wave. DBM's are a little more efficient if the LO is driven by a square wave.

Dave - WB6DHW
<http://wb6dhw.com>

On 1/14/2011 5:17 AM, Marcus D. Leech wrote:
> So, the LO on the UHFSDR operates at twice the desired frequency, and
> goes into a phase-splitter
> based on a pair of D flops. So I have two questions:
>
> o How does the phase splitter produce 90-degree phasing
> o The result is a square-wave, not a sinusoid, so don't you end
> up with odd harmonics in the
> output spectrum of the the mixers?
>
> Cheers
> Marcus
>

24. RE: [UHFSDR] mixer output and diplexer

Yahoo group: UHFSDR
Date: 2011-01-15 08:31:59 UTC
From: marc olanié
Topic: 18 Message: 24

-----Message d'origine-----
De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] De la part de Dave - WB6DHW
Envoyé : vendredi 14 janvier 2011 21:33
À : UHFSDR@yahoogroups.com
Objet : Re: [UHFSDR] mixer output and diplexer

Marc:
That should say the desired IF outputs are from DC to plus and minus 1/2 the sound card sampling frequency. The 50 KHz cutoff was chosen for a 96 KHz sampling frequency. If using 192 KHz, then the cut-off should be about 100 KHz.

Dave - WB6DHW
<http://wb6dhw.com>

On 1/14/2011 3:52 AM, marcolanie wrote:
> Hi
> YASQ : yet another stupid question :
> as stated in the operation manual : "The desired IF outputs are from DC to the sound card sampling frequency..."
>
> so far, so good
> but
>
> "Following the 6dB pad is a diplexer with a 50KHz cut-off"// with "a near 50 ohm path to ground for all signals above 50 Khz" and another cell of the diplexer that "pass all signals below 50 Khz to the following low noise audio amp".
>
>
> now the stupid question : why 50 KHz (and not something slightly over 192KHz), or did I mix two different ideas concerning the value of the "IF" and the bandwidth of the audio processor ?
>
> Marc
>
>
>
>

Yahoo! Groups Links

25. RE: [UHFSDR] mixer output and diplexer

Yahoo group: UHFSDR
Date: 2011-01-15 08:35:39 UTC
From: marc olanié
Topic: 18 Message: 25

> That should say the desired IF outputs are from DC to plus and minus 1/2 the sound card sampling frequency. The 50 KHz cutoff was chosen for a 96 KHz sampling frequency. If using 192 KHz, then the cut-off should be about 100 KHz.

Thnks Dave.

That's exactly what Marcus explained. I will change the values of the filter asap to adapt it to modern boards.

73'

Marc

26. uhf with Si570c

Yahoo group: UHFSDR
Date: 2011-01-15 15:28:28 UTC
From: seth_otherpower
Topic: 26 Message: 26

If I wanted to use the third harmonic, to Rx/Tx on 440Mhz -the lo would be set at 293.33mhz (and bandpass 440 -480Mhz)?? Can the software be set for a multiplyer of 1.5.. ... ... and I'm not so sure the frequency shifting would be linear .

Mike KC7NOA

27. Re: [UHFSDR] uhf with Si570c

Yahoo group: UHFSDR
Date: 2011-01-15 15:47:23 UTC
From: G3RIR
Topic: 26 Message: 27

This may be controversial and it might simply a problem at this end but I am somewhat wary of using the Si570 at UHF.

Recently, I completed a Softrock for 10 MHz being driven by a QRP2000 instead of the crystal. I set the QRP2000 which uses a Si570 to 42.72 MHz. My intention was to use the Softrock/QRP2000 combination to pick up the IF of my TS2000X (10.695 MHz centre). I want to have a panoramic adapter for 1296 MHz. Whilst experimenting with that combination before going inside the TS2000X I discovered that the Si570 was blocking the internet access of my PC which is wifi attached to a router about 3 metres away. I believe that the wifi is on about 2.4 GHz so my assumption is that the Si570 is producing a pretty big signal somewhere near 2.4 GHz. This doesn't seem a good recipe for success when looking for very weak signals at UHF and above.

Maybe it is a problem my end but I have now reverted to using the Softrock alone and have now obtained crystals which will give me 10.680 MHz without the Si570.

Comments would be welcomed.

Neil, G3RIR

28. RE: [UHFSDR] uhf with Si570c

Yahoo group: UHFSDR
Date: 2011-01-15 16:17:46 UTC
From: MIKE DURKIN
Topic: 26 Message: 28

Is your softrock in a shielded case ??

I find it wild that a Lo of 10mhz would have enough power to jam a wireless router at 10Ft away ...
lets see 2400mhz / 42mhz, or even 10.695..... is 56th harmonic, or 224th with the 10.695.
Also i would imagine that the router is capable of changing chanels - so a change of over 1mhz or so is possible - so if it was a carrier from the Si570 a channel change should do.
or a change in Lo of the Si570 should have some effect. (im wondering if you have some Lo leak into the UHF of the TS2000 that's being Tx'd)

Mike KC7NOA --- I think my question is do'able ....

To: UHFSDR@yahoogroups.com
From: g3rir@...
Date: Sat, 15 Jan 2011 15:47:23 +0000
Subject: Re: [UHFSDR] uhf with Si570c

This may be controversial and it might simply a problem at this end but I am

somewhat wary of using the Si570 at UHF.

Recently, I completed a Softrock for 10 MHz being driven by a QRP2000

instead of the crystal. I set the QRP2000 which uses a Si570 to 42.72 MHz.

My intention was to use the Softrock/QRP2000 combination to pick up the IF

of my TS2000X (10.695 MHz centre). I want to have a panoramic adapter for

1296 MHz. Whilst experimenting with that combination before going inside the

TS2000X I discovered that the Si570 was blocking the internet access of my

PC which is wifi attached to a router about 3 metres away. I believe that

the wifi is on about 2.4 GHz so my assumption is that the Si570 is producing

a pretty big signal somewhere near 2.4 GHz. This doesn't seem a good recipe

for success when looking for very weak signals at UHF and above.

Maybe it is a problem my end but I have now reverted to using the Softrock

alone and have now obtained crystals which will give me 10.680 MHz without

the Si570.

Comments would be welcomed.

Neil, G3RIR

29. Re: [UHFSDR] uhf with Si570c

Yahoo group: UHFSDR
Date: 2011-01-15 18:21:58 UTC
From: G3RIR
Topic: 26 Message: 29

Mike and others.

The Softrock is not in a shielded case nor is it yet connected to the TS2000X and the TS2000X wasn't even powered. I built it into a plastic case so that I could minimise earth loops.

By experiment I proved that switching off the Softrock/QRP2000 combination the wifi connection sprung into life again. Also I found that wrapping the Softrock/QRP2000 combination in kitchen foil stopped the problem but the wifi was again blocked as soon as I removed the foil.

If indeed there are some harmonics or spurii which block the wifi signal I suspect even in a shielded case once I connect it to the TS2000X IF then there would be enough leakage to cause havoc with my ability to pick up very weak 1296 MHz signals or even worse when I get my 13cm transverter working.

I had the Si570 set to 42.72 MHz which gets divided by 4 in the QSD in the Softrock to give reception at 10.68 MHz which is deliberately just 15 kHz low of the centre of the TS2000X IF at 10.695 MHz. I hadn't got as far as connecting it the TS2000X as yet. In fact I have yet to build a buffer.

I am proceeding along the crystal path now but the QRP 2000 Si570 proved very successful as a pseudo vfo and I would like to use it in other projects but I need to get to the bottom of the wifi blocking before I can.

Neil, G3RIR

From: MIKE DURKIN
Sent: Saturday, January 15, 2011 4:17 PM
To: uhfsdr@yahoogroups.com
Subject: RE: [UHFSDR] uhf with Si570c

Is your softrock in a shielded case ??

I find it wild that a Lo of 10mhz would have enough power to jam a wireless router at 10Ft away ...
lets see 2400mhz / 42mhz, or even 10.695..... is 56th harmonic, or 224th with the 10.695.
Also i would imagine that the router is capable of changing chanels - so a change of over 1mhz or so is possible - so if it was a carrier from the Si570 a channel change should do.
or a change in Lo of the Si570 should have some effect. (im wondering if you have some Lo leak into the UHF of the TS2000 that's being Tx'd)

Mike KC7NOA --- I think my question is do'able ....

To: UHFSDR@yahoogroups.com
From: g3rir@...
Date: Sat, 15 Jan 2011 15:47:23 +0000

Subject: Re: [UHFSDR] uhf with Si570c

This may be controversial and it might simply a problem at this end but I am somewhat wary of using the Si570 at UHF.

Recently, I completed a Softrock for 10 MHz being driven by a QRP2000 instead of the crystal. I set the QRP2000 which uses a Si570 to 42.72 MHz. My intention was to use the Softrock/QRP2000 combination to pick up the IF of my TS2000X (10.695 MHz centre). I want to have a panoramic adapter for 1296 MHz. Whilst experimenting with that combination before going inside the TS2000X I discovered that the Si570 was blocking the internet access of my PC which is wifi attached to a router about 3 metres away. I believe that the wifi is on about 2.4 GHz so my assumption is that the Si570 is producing a pretty big signal somewhere near 2.4 GHz. This doesn't seem a good recipe for success when looking for very weak signals at UHF and above.

Maybe it is a problem my end but I have now reverted to using the Softrock alone and have now obtained crystals which will give me 10.680 MHz without the Si570.

Comments would be welcomed.

Neil, G3RIR

30. RE: [UHFSDR] uhf with Si570c

Yahoo group: UHFSDR
Date: 2011-01-15 20:31:26 UTC
From: MIKE DURKIN
Topic: 26 Message: 30

Sounds like a shilded case and a bandpass for 10Mhz you would be good to go!!!

Personaly I want a Si570 that had harmonics clear up to 1.2Ghz.... I want to cover the 900Mhz band too!!!! Good 120db band pass filters and mabey a notch.

I also plan on using a dipexer that has 75db band rejection - first cut at 180Mhz, second port at passes 220Mhz band and 3rd passes
every thing above 300Mhz ... but that's just me.

To: UHFSDR@yahoogroups.com
From: g3rir@...
Date: Sat, 15 Jan 2011 18:21:58 +0000
Subject: Re: [UHFSDR] uhf with Si570c

Mike and others.

The Softrock is not in a shielded case nor is it yet connected to the TS2000X and the TS2000X wasn’t even powered. I built it into a plastic case so that I could minimise earth loops.

By experiment I proved that switching off the Softrock/QRP2000 combination the wifi connection sprung into life again. Also I found that wrapping the Softrock/QRP2000 combination in kitchen foil stopped the problem but the wifi was again blocked as soon as I removed the foil.

If indeed there are some harmonics or spurii which block the wifi signal I suspect even in a shielded case once I connect it to the TS2000X IF then there would be enough leakage to cause havoc with my ability to pick up very weak 1296 MHz signals or even worse when I get my 13cm transverter working.

I had the Si570 set to 42.72 MHz which gets divided by 4 in the QSD in the Softrock to give reception at 10.68 MHz which is deliberately just 15 kHz low of the centre of the TS2000X IF at 10.695 MHz. I hadn’t got as far as connecting it the TS2000X as yet. In fact I have yet to build a buffer.

I am proceeding along the crystal path now but the QRP 2000 Si570 proved very successful as a pseudo vfo and I would like to use it in other projects but I need to get to the bottom of the wifi blocking before I can.

Neil, G3RIR

From: MIKE DURKIN
Sent: Saturday, January 15, 2011 4:17 PM
To: uhfsdr@yahoogroups.com
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a change of over 1mhz or so is possible - so if it was a carrier from the Si570
a channel change should do. or a change in Lo of the Si570 should have some
effect. (im wondering if you have some Lo leak into the UHF of the TS2000
that's being Tx'd)

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To: UHFSDR@yahoogroups.com
From: g3rir@...
Date: Sat, 15 Jan 2011
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Subject: Re: [UHFSDR] uhf with Si570c

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somewhat wary of using the Si570 at UHF.

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crystal. I set the QRP2000 which uses a Si570 to 42.72 MHz.
My intention was
to use the Softrock/QRP2000 combination to pick up the IF
of my TS2000X
(10.695 MHz centre). I want to have a panoramic adapter for
1296 MHz. Whilst
experimenting with that combination before going inside the
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PC which is
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Maybe it is a
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alone and have
now obtained crystals which will give me 10.680 MHz without
the
Si570.

Comments would be welcomed.

Neil, G3RIR

31. Re: [UHFSDR] uhf with Si570c

Yahoo group: UHFSDR
Date: 2011-01-15 21:50:21 UTC
From: Dave - WB6DHW
Topic: 26 Message: 31

Neil:
The Si570 will have strong odd harmonics because the output is a square wave with a very fast rise time. The 57th harmonic of 42.72 is 2435.05. This falls within Wifi channels 4,5,6, and 7. Try changing your Wifi to either a low or a high channel. I have used my UHFSDR on 2 meters, the public service VHF hi band, and 440 MHz without any Wifi interference.

Dave - WB6DHW
<http://wb6dhw.com>

On 1/15/2011 10:21 AM, G3RIR wrote:
>
>
> Mike and others.
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> could minimise earth loops.
> By experiment I proved that switching off the Softrock/QRP2000 combination the
> wifi connection sprung into life again. Also I found that wrapping the
> Softrock/QRP2000 combination in kitchen foil stopped the problem but the wifi
> was again blocked as soon as I removed the foil.
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> would be enough leakage to cause havoc with my ability to pick up very weak
> 1296 MHz signals or even worse when I get my 13cm transverter working.
> I had the Si570 set to 42.72 MHz which gets divided by 4 in the QSD in the
> Softrock to give reception at 10.68 MHz which is deliberately just 15 kHz low
> of the centre of the TS2000X IF at 10.695 MHz. I hadn?t got as far as
> connecting it the TS2000X as yet. In fact I have yet to build a buffer.
> I am proceeding along the crystal path now but the QRP 2000 Si570 proved very
> successful as a pseudo vfo and I would like to use it in other projects but I
> need to get to the bottom of the wifi blocking before I can.
> Neil, G3RIR
> *From:* MIKE DURKIN <mailto:Patriot121@...>
> *Sent:* Saturday, January 15, 2011 4:17 PM
> *To:* uhfsdr@yahoogroups.com <mailto:uhfsdr@yahoogroups.com>
> *Subject:* RE: [UHFSDR] uhf with Si570c
>
>
> Is your softrock in a shielded case ??
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> I find it wild that a Lo of 10mhz would have enough power to jam a wireless
> router at 10Ft away ...
> lets see 2400mhz / 42mhz, or even 10.695..... is 56th harmonic, or 224th with
> the 10.695. Also i would imagine that the router is capable of changing

> chanels - so a change of over 1mhz or so is possible - so if it was a carrier
> from the Si570 a channel change should do. or a change in Lo of the Si570
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> PC which is wifi attached to a router about 3 metres away. I believe that
> the wifi is on about 2.4 GHz so my assumption is that the Si570 is producing
> a pretty big signal somewhere near 2.4 GHz. This doesn't seem a good recipe
> for success when looking for very weak signals at UHF and above.
>
> Maybe it is a problem my end but I have now reverted to using the Softrock
> alone and have now obtained crystals which will give me 10.680 MHz without
> the Si570.
>
> Comments would be welcomed.
>
> Neil, G3RIR
>
>
>
>
>

32. RE: [UHFSDR] uhf with Si570c

Yahoo group: UHFSDR
Date: 2011-01-15 22:05:32 UTC
From: MIKE DURKIN
Topic: 26 Message: 32

Hey Dave,
Was that direct (ok, I think its direct conversion anyways) or using a 3rd harmonic - with a Si570C?

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: brainerd@...
Date: Sat, 15 Jan 2011 13:50:21 -0800
Subject: Re: [UHFSDR] uhf with Si570c

Neil:

The Si570 will have strong odd harmonics because the output is a square wave with a very fast rise time. The 57th harmonic of 42.72 is 2435.05. This falls within Wifi channels 4,5,6, and 7. Try changing your Wifi to either a low or a high channel. I have used my UHFSDR on 2 meters, the public service VHF hi band, and 440 MHz without any Wifi interference.

Dave - WB6DHW

<http://wb6dhw.com>

On 1/15/2011 10:21 AM, G3RIR wrote:

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which is deliberately just 15 kHz low of the centre of the TS2000X IF at 10.695 MHz. I hadn’t got as far as connecting it the TS2000X as yet. In fact I have yet to build a buffer.

I am proceeding along the crystal path now but the QRP 2000 Si570 proved very successful as a pseudo vfo and I would like to use it in other projects but I need to get to the bottom of the wifi blocking before I can.

Neil, G3RIR

From: MIKE DURKIN
Sent: Saturday, January 15, 2011 4:17 PM
To: uhfsdr@yahoogroups.com

Subject: RE: [UHFSDR] uhf with Si570c

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shielded case ??

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Mike KC7NOA --- I think my question is do'able ....

To: UHFSDR@yahoogroups.com

From: g3rir@...

Date: Sat, 15 Jan 2011 15:47:23 +0000

Subject: Re: [UHFSDR] uhf with Si570c

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1296 MHz. Whilst experimenting with that combination before going inside the

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alone and have now obtained crystals which will give me 10.680 MHz without

the Si570.

Comments would be welcomed.

Neil, G3RIR

33. Re: [UHFSDR] uhf with Si570c

Yahoo group: UHFSDR
Date: 2011-01-15 22:21:30 UTC
From: Dave - WB6DHW
Topic: 26 Message: 33

That was direct. With a grade A Si570(which goes to 1.4 GHz), you can go direct to 700 MHz).
Dave - WB6DHW
<http://wb6dhw.com>

On 1/15/2011 2:05 PM, MIKE DURKIN wrote:
>
>
> Hey Dave,
> Was that direct (ok, I think its direct conversion anyways) or using a
> 3rd harmonic - with a Si570C?
>
> Mike KC7NOA
>
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> To: UHFSDR@yahoogroups.com
> From: brainerd@...
> Date: Sat, 15 Jan 2011 13:50:21 -0800
> Subject: Re: [UHFSDR] uhf with Si570c
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> Neil:
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> projects but I need to get to the bottom of the wifi blocking before I can.
> Neil, G3RIR
> *From:* MIKE DURKIN <mailto:Patriot121@...>
> *Sent:* Saturday, January 15, 2011 4:17 PM
> *To:* uhfsdr@yahoogroups.com <mailto:uhfsdr@yahoogroups.com>
> *Subject:* RE: [UHFSDR] uhf with Si570c
>
>
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> the Si570.

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> Comments would be welcomed.
>
> Neil, G3RIR
>
>
>
>
>
>
>

34. Si570bbc @ KM5H

Yahoo group: UHFSDR
Date: 2011-01-22 05:43:01 UTC
From: seth_otherpower
Topic: 34 Message: 34

Has anyone bought a Si570bbc from KM5H ?? how high in freq did it go ?

Mike KC7NOA

35. 2.4 Wireless interfearence

Yahoo group: UHFSDR
Date: 2011-01-22 05:47:59 UTC
From: seth_otherpower
Topic: 35 Message: 35

Neil ... did you ever get this ironed out ??

Mike KC7NOA

Quote *****

Re: [UHFSDR] uhf with Si570c

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Comments would be welcomed.

Neil, G3RIR

End QUOte***

36. Re: [UHFSDR] 2.4 Wireless interfearence

Yahoo group: UHFSDR
Date: 2011-01-22 08:32:05 UTC
From: G3RIR
Topic: 35 Message: 36

Mike,

I found that covering the plastic case which contains the Softrock/QRP2000 with kitchen foil cured the problem. I had used a plastic case to minimise earth loops, particularly from the antenna connection. It seems that the best route is to use a metal case and find some method of isolating the "earth" connection to the antenna connector.

For my purpose which is to provide a pan-adapter on the IF of my TS2000X, I have obtained a suitable crystal for the Softrock to give me 10.680 MHz (15kHz offset from the centre of the IF) and will use the QRP2000 for other purposes.

I have no doubt whatsoever that the combination of Softrock/QRP2000 which I built was creating sufficient RF to cause my wifi internet connection to be masked. Clearly such large signals at about 2.4GHz are not conducive to weak signal work at Microwave. It is probably my construction and not anything inherently wrong with either the Softrock or the QRP2000 as in every other respect they are superb kits and have provided me with a fantastic introduction to the world of SDR.

73

Neil, G3RIR

-----Original Message-----
From: seth_otherpower
Sent: Saturday, January 22, 2011 5:47 AM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] 2.4 Wireless interfearence

Neil ... did you ever get this ironed out ??

Mike KC7NOA

Quote *****

Re: [UHFSDR] uhf with Si570c

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Comments would be welcomed.

Neil, G3RIR

End QUOte***

Yahoo! Groups Links

37. RE: [UHFSDR] 2.4 Wireless interfearence

Yahoo group: UHFSDR
Date: 2011-01-22 14:44:02 UTC
From: MIKE DURKIN
Topic: 35 Message: 37

I remember some where that case ground should be in only place and all other board grounds go to case VIA a cap - i dont think the other grounds via caps are necessary .. i imagine a loli-pop as the project and the raper is the rf sheild and where all comes in/out is a single case ground

Glad to hear that your on the right track ....

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: g3rir@...
Date: Sat, 22 Jan 2011 08:32:05 +0000
Subject: Re: [UHFSDR] 2.4 Wireless interfearence

Mike,

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with kitchen foil cured the problem. I had used a plastic case to minimise

earth loops, particularly from the antenna connection. It seems that the

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"earth" connection to the antenna connector.

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(15kHz offset from the centre of the IF) and will use the QRP2000 for other

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I have no doubt whatsoever that the combination of Softrock/QRP2000 which I

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masked. Clearly such large signals at about 2.4GHz are not conducive to weak

signal work at Microwave. It is probably my construction and not anything

inherently wrong with either the Softrock or the QRP2000 as in every other

respect they are superb kits and have provided me with a fantastic

introduction to the world of SDR.

73

Neil, G3RIR

-----Original Message-----

From: seth_otherpower

Sent: Saturday, January 22, 2011 5:47 AM

To: UHFSDR@yahoogroups.com

Subject: [UHFSDR] 2.4 Wireless interfearence

Neil ... did you ever get this ironed out ??

Mike KC7NOA

Quote *****

Re: [UHFSDR] uhf with Si570c

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Comments would be welcomed.

Neil, G3RIR

End QUOte***

Yahoo! Groups Links

38. Re: Si570bbc @ KM5H

Yahoo group: UHFSDR
Date: 2011-01-24 15:21:26 UTC
From: wolf.kink
Topic: 34 Message: 38

--- In UHFSDR@yahoogroups.com, "seth_otherpower" <Patriot121@...> wrote:
>
> Has anyone bought a Si570bbc from KM5H ?? how high in freq did it go ?
>
> Mike KC7NOA
>

Hi Mike,

my Si570BBC from KM5H is going up to 268MHz?

73 de Wolfgang, DL4FDD

39. RE: [UHFSDR] Re: Si570bbc @ KM5H

Yahoo group: UHFSDR
Date: 2011-01-24 15:32:03 UTC
From: MIKE DURKIN
Topic: 34 Message: 39

OK, im looking for the 3rd order dev by 2 .... 402 ... humm hope there are more responses (that are higher)
Though iv got a line on a Si570BBB .... im hopeing to get more than one UHFSDR going.

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: wolf.kink@...
Date: Mon, 24 Jan 2011 15:21:26 +0000
Subject: [UHFSDR] Re: Si570bbc @ KM5H

--- In UHFSDR@yahoogroups.com, "seth_otherpower" <Patriot121@...> wrote:
>
> Has anyone bought a Si570bbc from KM5H ?? how high in freq did it go ?
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>

Hi Mike,

my Si570BBC from KM5H is going up to 268MHz?

73 de Wolfgang, DL4FDD

40. Re: [UHFSDR] Re: Si570bbc @ KM5H

Yahoo group: UHFSDR
Date: 2011-01-24 15:44:19 UTC
From: Marcus D. Leech
Topic: 34 Message: 40

```
>
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
> "seth_otherpower" <Patriot121@...> wrote:
> >
> > Has anyone bought a Si570bbc from KM5H ?? how high in freq did it go ?
> >
> > Mike KC7NOA
> >
>
> Hi Mike,
>
> my Si570BBC from KM5H is going up to 268MHz?
>
> 73 de Wolfgang, DL4FDD
>
>
So, a synthesizer one might consider in the future for something like
the UHFSDR is the upcoming ADF4351 from Analog Devices.
It produces 35MHz to 4.4GHz, and is the follow-on to the ADF4350,
which produces from 137.5MHz to 4.4GHz. The ADF4350 is
used in the WBX front-end board for the Ettus Research products,
which covers from 50MHz to 2.2GHz.

--
Marcus Leech
Principal Investigator
Shirleys Bay Radio Astronomy Consortium
http://www.sbrac.org
```

41. RE: [UHFSDR] Re: Si570bbc @ KM5H

Yahoo group: UHFSDR
Date: 2011-01-24 16:18:36 UTC
From: MIKE DURKIN
Topic: 34 Message: 41

now the low end sucks for that one ... using the low 3rd harmonic devided by 2 (UHFSDR) hits just above 60M (5.8333Mhz) wonder if the ADF4351 could go lower. - a programible devide by might be fun too .... devide by 2 ,4 and 8.

Just thinking out loud ...

Mike KC7NOA

To: UHFSDR@yahoogroups.com
CC: wolf.kink@...
From: mleech@...
Date: Mon, 24 Jan 2011 10:44:19 -0500
Subject: Re: [UHFSDR] Re: Si570bbc @ KM5H

--- In UHFSDR@yahoogroups.com, "seth_otherpower" <Patriot121@...> wrote:
>
> Has anyone bought a Si570bbc from KM5H ?? how high in freq did it go ?
>
> Mike KC7NOA
>

Hi Mike,

my Si570BBC from KM5H is going up to 268MHz?

73 de Wolfgang, DL4FDD

So, a synthesizer one might consider in the future for something like the UHFSDR is the upcoming ADF4351 from Analog Devices.
It produces 35MHz to 4.4GHz, and is the follow-on to the ADF4350, which produces from 137.5MHz to 4.4GHz. The ADF4350 is
used in the WBX front-end board for the Ettus Research products, which covers from 50MHz to 2.2GHz.

--
Marcus Leech
Principal Investigator
Shirleys Bay Radio Astronomy Consortium
http://www.sbrac.org

42. Re: [UHFSDR] Re: Si570bbc @ KM5H

Yahoo group: UHFSDR
Date: 2011-01-24 17:14:24 UTC
From: Marcus D. Leech
Topic: 34 Message: 42

> now the low end sucks for that one ... using the low 3rd harmonic
> devided by 2 (UHFSDR) hits just above 60M (5.8333Mhz) wonder if the
> ADF4351 could go lower. - a programible devide by might be fun too
> .... devide by 2 ,4 and 8.
>
> Just thinking out loud ...
>
> Mike KC7NOA
>
>
For a 2XLO, the ADF4351 can take it down to a conversion frequency
around 17.5MHz.

>

--
Marcus Leech
Principal Investigator
Shirleys Bay Radio Astronomy Consortium
http://www.sbrac.org

43. Diplexer

Yahoo group: UHFSDR
Date: 2011-01-26 17:41:44 UTC
From: MIKE DURKIN
Topic: 43 Message: 43

Does any one know of a Diplexer with a split at 1Ghz ?? (small would help) hopefully with a isolation greater than 40db....

Mike KC7NOA

44. RE: [UHFSDR] Diplexer

Yahoo group: UHFSDR
Date: 2011-01-26 17:57:16 UTC
From: MIKE DURKIN
Topic: 43 Message: 44

Jesh - i hate it when i make a posting/question and THEN i find what i think im looking for ....

WDK1.0-1.3/15G-10S3

Mike KC7NOA

To: softrock40@yahoogroups.com; uhfsdr@yahoogroups.com
From: Patriot121@...
Date: Wed, 26 Jan 2011 09:41:44 -0800
Subject: [UHFSDR] Diplexer

Does any one know of a Diplexer with a split at 1Ghz ?? (small would help) hopefully with a isolation greater than 40db....

Mike KC7NOA

45. Re: Are additional RF filters needed?

Yahoo group: UHFSDR
Date: 2011-01-28 19:20:27 UTC
From: Rob
Topic: 16 Message: 45

Dave,

Do the harmonics result from the square wave output by si570, or are they caused by the dbm process itself? (I have assumed the si570 is square wave output as I think it is intended for use as a reference for digital phy level comms chips.)

If they are introduced by the square wave, is it possible to filter the LO signal applied to the dbm, possibly saving tx power and maybe simplifying the filtering needs...

I think the downside of this would be the need to put a wide-range frequency filter in the 'middle' of the system. Any such filter might have to go after the counter/dividers to still give them a proper edge to work with.

I guess you have considered this type of approach. What did you think about it?

Thanks
Rob

--- In UHFSDR@yahoogroups.com, Dave - WB6DHW <brainerd@...> wrote:
>
> Rob:
> On receive, DBM's will respond to odd harmonics of the LO. If you have no
> strong signals on those frequencies, you can get away without the band pass
> filter on receive. On transmit, there will also be some odd harmonic energy
> present. In order to comply with the FCC requirements, you will need the low
> pass filters on the RF output.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 1/14/2011 1:51 AM, Rob wrote:
> > Hi,
> >
> > I've had a look through the uhfsdr operation doc and thought I had understood how it works(!). So I didn't understand the need for additional external filters that was discussed on the softrock group.
> >
> > I apologise if this is obvious to everyone except me but could you please explain?
> >
> > Thanks
> > Rob
> >
> > http://groups.yahoo.com/group/softrock40/message/51079
> >
> > Re: [softrock40] Re: UHFSDR Full Kits
> >

> > Siven:
> > True. The UHFSDR does not include filters. You will need band pass filters
> > for receive. For transmit, you will need either band pass filters or low pass
> > filters.
> >
> > Dave - WB6DHW
> > <http://wb6dhw.com>
> >
> > On 1/1/2011 12:48 AM, Sivan wrote:
> >> Alan,
> >>
> >> Even with the full kits, actually using it will require an external set of
> > bandpass filters, right? Or did I miss something?
> >> Thanks, Sivan
> >>
> >
> >
>

46. Re: [UHFSDR] Re: Are additional RF filters needed?

Yahoo group: UHFSDR
Date: 2011-01-28 21:19:21 UTC
From: Dave - WB6DHW
Topic: 16 Message: 46

Rob:
The DBM process itself produces some odd harmonics(the Balanced part reduces the even harmonics and the carrier). So do the amplifiers, although hopefully at a very low level. DBM's fed with a squarewave are actually more efficient than using a sinewave.

Dave - WB6DHW
<http://wb6dhw.com>

On 1/28/2011 11:20 AM, Rob wrote:
> Dave,
>
> Do the harmonics result from the square wave output by si570, or are they caused by the dbm process itself? (I have assumed the si570 is square wave output as I think it is intended for use as a reference for digital phy level comms chips.)
>
> If they are introduced by the square wave, is it possible to filter the LO signal applied to the dbm, possibly saving tx power and maybe simplifying the filtering needs...
>
> I think the downside of this would be the need to put a wide-range frequency filter in the 'middle' of the system. Any such filter might have to go after the counter/dividers to still give them a proper edge to work with.
>
> I guess you have considered this type of approach. What did you think about it?
>
> Thanks
> Rob
>
> --- In UHFSDR@yahoogroups.com, Dave - WB6DHW<brainerd@...> wrote:
>> Rob:
>> On receive, DBM's will respond to odd harmonics of the LO. If you have no
>> strong signals on those frequencies, you can get away without the band pass
>> filter on receive. On transmit, there will also be some odd harmonic energy
>> present. In order to comply with the FCC requirements, you will need the low
>> pass filters on the RF output.
>>
>> Dave - WB6DHW
>> <http://wb6dhw.com>
>>
>> On 1/14/2011 1:51 AM, Rob wrote:
>>> Hi,
>>>
>>> I've had a look through the uhfsdr operation doc and thought I had understood how it works(!). So I didn't understand the need for additional external filters that was discussed on the softrock group.

>>>
>>> I apologise if this is obvious to everyone except me but could you please explain?
>>>
>>> Thanks
>>> Rob
>>>
>>> http://groups.yahoo.com/group/softrock40/message/51079
>>>
>>> Re: [softrock40] Re: UHFSDR Full Kits
>>>
>>> Siven:
>>> True. The UHFSDR does not include filters. You will need band pass filters
>>> for receive. For transmit, you will need either band pass filters or low pass
>>> filters.
>>>
>>> Dave - WB6DHW
>>> <http://wb6dhw.com>
>>>
>>> On 1/1/2011 12:48 AM, Sivan wrote:
>>>> Alan,
>>>>
>>>> Even with the full kits, actually using it will require an external set of
>>> bandpass filters, right? Or did I miss something?
>>>> Thanks, Sivan
>>>>
>>>
>
>
>

47. Re: [UHFSDR] Re: Are additional RF filters needed?

Yahoo group: UHFSDR
Date: 2011-01-28 22:02:47 UTC
From: Marcus D. Leech
Topic: 16 Message: 47

> Rob:
> The DBM process itself produces some odd harmonics(the Balanced part
> reduces
> the even harmonics and the carrier). So do the amplifiers, although
> hopefully
> at a very low level. DBM's fed with a squarewave are actually more
> efficient
> than using a sinewave.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
What this says is that RF filtering continues to be important.

If your fundamental is 700MHz, for example, then the 3rd harmonic of the
LO can still mix with 2.1GHz, and downconvert to DC, and thus
appear in the mixer output. So, input band-shaping is still
important. This is true of any broadly-tunable device, typically.
Harmonics
will generally appear on an 1/(N**2) power law, so that the 3rd
harmonic will be almost 10dB down from the fundamental, 5th harmonic will be
about 14dB down, and so on.
> .
>
>

--
Marcus Leech
Principal Investigator
Shirleys Bay Radio Astronomy Consortium
http://www.sbrac.org

49. TX driver

Yahoo group: UHFSDR
Date: 2011-01-30 04:38:27 UTC
From: rainerfeldkamp
Topic: 49 Message: 49

Hi all,

After completing the UHFSDR starting with the partial kit, I am performing some measurements. Everything went fine so far, apart from the MMG3H21 driver.

The measurements confirm Step 243 of the assembly manual in that the MMG3H21 starts severely distorting below about 15 MHz. I am considering cutting the trace between C13 and C14 and replacing it by an inductor of 3.3 µH.

Has anybody a better idea to decrease the lower frequency limit of the TX driver without impairing the upper limit (ERA-5 with larger supply resistance ?).

Any hint would be highly appreciated.

VY73

Rainer, DJ6OA

50. Re: [UHFSDR] TX driver

Yahoo group: UHFSDR
Date: 2011-01-30 05:33:46 UTC
From: Dave - WB6DHW
Topic: 49 Message: 50

Rainer:
You are correct. The impedance of L1 becomes too low at low frequency.
Either or both of the following work:
Replace L1 with a 3.3 uH
Remove C12,C13,C14.
If you plan on using the UHFSDR both at 450 MHz and 80 or 160 Meters, the inductor at L1 must still have a good RF impedance at 450 MHz(ie the self resonance frequency needs to be in the VHF range). Yaesu, in the FT8X7 designs that have a 5W amp that covers from 160M thru 450 MHz use 2 inductors in series - a 10 uH for low frequencies and something under .1 uH for VHF/UHF where the 10 uH looks like a capacitor.

Dave - WB6DHW
<http://wb6dhw.com>

On 1/29/2011 8:31 PM, rainerfeldkamp wrote:
> Hi all
>
> After completing the UHFSDR starting with the partial kit, I am performing some measurements. Everything went fine so far, apart from the MMG3H21 driver.
>
> The measurements confirm Step 243 of the assembly manual in that the MMG3H21 starts severely distorting below about 15 MHz. I am considering cutting the trace between C13 and C14 and replacing it by an inductor of 3.3 ?H.
>
> Has anybody a better idea to decrease the lower frequency limit of the TX driver without impairing the upper limit (ERA-5 with larger supply resistance ?).
>
> Any hint would be highly appreciated.
>
> VY37
>
> Rainer, DJ6OA
>
>
>

51. full kit

Yahoo group: UHFSDR
Date: 2011-01-30 09:48:56 UTC
From: Chris
Topic: 51 Message: 51

hi is there a full parts kit and board for this UHFSDR
cheers Chris

52. Re: [UHFSDR] full kit

Yahoo group: UHFSDR
Date: 2011-01-30 10:36:25 UTC
From: Sid Boyce
Topic: 51 Message: 52

On 30/01/11 09:48, Chris wrote:
> hi is there a full parts kit and board for this UHFSDR
> cheers Chris
>

The Silver fox is in the process of doing so in the hopefully very near
future, so keep in touch with this group. If you are definitely
interested, you may say so here so Alan knows.
73 ... Sid.
--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

53. Re: full kit

Yahoo group: UHFSDR
Date: 2011-01-30 14:28:32 UTC
From: dl2vt
Topic: 51 Message: 53

--- In UHFSDR@yahoogroups.com, "Chris" <chris.yln@...> wrote:
>
> hi is there a full parts kit and board for this UHFSDR
> cheers Chris
>

Look at

http://forum.vhfdx.ru/novichkam/sdr/?action=dlattach;attach=15736

Dieter

54. Re: [UHFSDR] Re: full kit

Yahoo group: UHFSDR
Date: 2011-01-30 20:12:23 UTC
From: Dave - WB6DHW
Topic: 51 Message: 54

That offer was from Art, KY1K. Do to a family problem, he is no longer doing the kits. Those prices did not include the Si570. Silver Fox will soon be selling a full kit. It will include a grade A Si570.

Dave - WB6DHW
<http://wb6dhw.com>

On 1/30/2011 6:28 AM, dl2vt wrote:
>
> --- In UHFSDR@yahoogroups.com, "Chris"<chris.yln@...> wrote:
>> hi is there a full parts kit and board for this UHFSDR
>> cheers Chris
>>
> Look at
>
> http://forum.vhfdx.ru/novichkam/sdr/?action=dlattach;attach=15736
>
> Dieter
>
>
>

55. Re: TX driver

Yahoo group: UHFSDR
Date: 2011-01-31 03:09:09 UTC
From: rainerfeldkamp
Topic: 49 Message: 55

Dave:

Thank you for the excellent tip.

I ended up in simply cutting the pad for L1 adjacent C14 in two halves and bridging the gap with a 3.3µH inductor as per the assembly manual.

The driver is now linear within 1.6dB from 3.5M to at least 450M (I did not measure any higher).

Congratulations for the excellent design and thank you for your help.

Regards,

Rainer DJ6OA

--- In UHFSDR@yahoogroups.com, Dave - WB6DHW <brainerd@...> wrote:
>
> Rainer:
> You are correct. The impedance of L1 becomes too low at low frequency.
> Either or both of the following work:
> Replace L1 with a 3.3 uH
> Remove C12,C13,C14.
> If you plan on using the UHFSDR both at 450 MHz and 80 or 160 Meters, the
> inductor at L1 must still have a good RF impedance at 450 MHz(ie the self
> resonance frequency needs to be in the VHF range). Yaesu, in the FT8X7 designs
> that have a 5W amp that covers from 160M thru 450 MHz use 2 inductors in series
> - a 10 uH for low frequencies and something under .1 uH for VHF/UHF where the 10
> uH looks like a capacitor.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 1/29/2011 8:31 PM, rainerfeldkamp wrote:
> > Hi all
> >
> > After completing the UHFSDR starting with the partial kit, I am performing some
measurements. Everything went fine so far, apart from the MMG3H21 driver.
> >
> > The measurements confirm Step 243 of the assembly manual in that the MMG3H21 starts
severely distorting below about 15 MHz. I am considering cutting the trace between C13 and
C14 and replacing it by an inductor of 3.3 µH.
> >
> > Has anybody a better idea to decrease the lower frequency limit of the TX driver
without impairing the upper limit (ERA-5 with larger supply resistance ?).
> >
> > Any hint would be highly appreciated.

> >
> > VY37
> >
> > Rainer, DJ6OA
> >
> >
> >
>

56. Soundcard

Yahoo group: UHFSDR
Date: 2011-01-31 14:20:34 UTC
From: MIKE DURKIN
Topic: 56 Message: 56

Is there any free programs to check microphone inputs (linux or WinSnooz) .... I have a usb sound card with dual microphone inputs ... both work but i cant controll the gain of both and im not sure if the thing is not just combining the two signals befrore being sent to the computer.

Mike KC7NOA

57. RSGB Convention

Yahoo group: UHFSDR
Date: 2011-01-31 20:40:46 UTC
From: Neil
Topic: 57 Message: 57

Is there anyone on this group able and willing to give a talk on SDR particularly in a VHF/UHF context at the RSGB Covention in October? Or indeed can suggest someone.

I am with Reg (G8VHI) organising the VHF and Up stream again this year.

Neil, G3RIR

g3rir@...

58. Re: [UHFSDR] Soundcard

Yahoo group: UHFSDR
Date: 2011-01-31 21:10:56 UTC
From: Dave - WB6DHW
Topic: 56 Message: 58

Audacity. Available for both Windows and Linux.

Dave - WB6DHW
<http://wb6dhw.com>

On 1/31/2011 6:20 AM, MIKE DURKIN wrote:
>
>
> Is there any free programs to check microphone inputs (linux or WinSnooz) ....
> I have a usb sound card with dual microphone inputs ... both work but i cant
> controll the gain of both and im not sure if the thing is not just combining
> the two signals befrore being sent to the computer.
>
> Mike KC7NOA
>
>
>

59. Re: mixer output and diplexer

Yahoo group: UHFSDR
Date: 2011-02-02 15:20:20 UTC
From: marcolanie
Topic: 18 Message: 59

Hi again

> If using 192 KHz, then the cut-off should be about
> 100 KHz.
>
> Dave - WB6DHW

Trying to play for the very first time with LT Spice, this gives :
R37(38)=50
C56(57)=22n
L2(L3)=88µH
C55-56 (53-54)=0.1µF (unchanged)
C51(48)=100µF
Am I wrong ?

73'
f6itu

60. Re: full kit

Yahoo group: UHFSDR
Date: 2011-02-13 10:36:08 UTC
From: dieter_thimm
Topic: 51 Message: 60

Hi all,

please can you explain, what "Silver Fox" will mean?

Regards,

Dieter

--- In UHFSDR@yahoogroups.com, Dave - WB6DHW <brainerd@...> wrote:
>
> That offer was from Art, KY1K. Do to a family problem, he is no longer doing
> the kits. Those prices did not include the Si570. Silver Fox will soon be
> selling a full kit. It will include a grade A Si570.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 1/30/2011 6:28 AM, dl2vt wrote:
> >
> > --- In UHFSDR@yahoogroups.com, "Chris"<chris.yln@> wrote:
> >> hi is there a full parts kit and board for this UHFSDR
> >> cheers Chris
> >>
> > Look at
> >
> > http://forum.vhfdx.ru/novichkam/sdr/?action=dlattach;attach=15736
> >
> > Dieter
> >
> >
> >
>

61. Re: [UHFSDR] Re: full kit

Yahoo group: UHFSDR
Date: 2011-02-13 19:28:12 UTC
From: Dave - WB6DHW
Topic: 51 Message: 61

The "Silver Fox" is Alan W6ARH. He will be selling a complete kit including
a grade "A" Si570, all parts, and a pcb. He is making a little money with the
kits(it is a LOT of work). He will announce availability on the UHFSDR group
and likely on the Softrock40 group.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/13/2011 2:36 AM, dieter_thimm wrote:
> Hi all,
>
> please can you explain, what "Silver Fox" will mean?
>
> Regards,
>
> Dieter
>
> --- In UHFSDR@yahoogroups.com, Dave - WB6DHW<brainerd@...> wrote:
>> That offer was from Art, KY1K. Do to a family problem, he is no longer doing
>> the kits. Those prices did not include the Si570. Silver Fox will soon be
>> selling a full kit. It will include a grade A Si570.
>>
>> Dave - WB6DHW
>> <http://wb6dhw.com>
>>
>> On 1/30/2011 6:28 AM, dl2vt wrote:
>>> --- In UHFSDR@yahoogroups.com, "Chris"<chris.yln@> wrote:
>>>> hi is there a full parts kit and board for this UHFSDR
>>>> cheers Chris
>>>>
>>> Look at
>>>
>>> http://forum.vhfdx.ru/novichkam/sdr/?action=dlattach;attach=15736
>>>
>>> Dieter
>>>
>>>
>>>
>
>
>

62. Re: [UHFSDR] Re: full kit

Yahoo group: UHFSDR
Date: Unknown date
From: Glen Overby
Topic: 51 Message: 62

Dave - WB6DHW wrote:
> The "Silver Fox" is Alan W6ARH. He will be selling a complete kit including
> a grade "A" Si570, all parts, and a pcb. He is making a little money with the
> kits(it is a LOT of work). He will announce availability on the UHFSDR group
> and likely on the Softrock40 group.

The first 20 kits were made available on Feb 2. I don't know if he's sold
out yet (I ordered one).

http://groups.yahoo.com/group/softrock40/message/52489

Glen, kc0iyt

63. Re: [UHFSDR] Re: full kit

Yahoo group: UHFSDR
Date: 2011-02-14 02:48:55 UTC
From: Sid Boyce
Topic: 51 Message: 63

On 13/02/11 19:43, Glen Overby wrote:
> Dave - WB6DHW wrote:
> > The "Silver Fox" is Alan W6ARH. He will be selling a complete kit
> including
> > a grade "A" Si570, all parts, and a pcb. He is making a little money
> with the
> > kits(it is a LOT of work). He will announce availability on the
> UHFSDR group
> > and likely on the Softrock40 group.
>
> The first 20 kits were made available on Feb 2. I don't know if he's sold
> out yet (I ordered one).
>
> http://groups.yahoo.com/group/softrock40/message/52489
>
> Glen, kc0iyt
>

Must be my memory or too many things going on. I got a fright that I had
missed the message and did not order, but checking Paypal, I'm in.
73 ... Sid.
--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

64. Factor of 4 off on Si570.exe

Yahoo group: UHFSDR
Date: 2011-02-18 16:15:26 UTC
From: Jack
Topic: 64 Message: 64

Folks,

I am at checking the receiver at step 158 of the manual. I receive the 10 MHz WWV fine but with a setting on the Si700.exe of 2.5 MHz. Up until now all tests were right on; or at least I thought they were. Initially I had problems getting the Si570.exe to set the frequency (Step 72) but I thought I had the problem isolated to a bad connector at H2 and the exe program seemed to work fine. Now, after further assembly, a program setting of 10 MHz produces a 40 MHz output at TP8. I have inspected and reinspected all the soldering associated with U13 and U14 but haven't discovered a bad connection. I am starting to think that U13 may have failed. Any thought or suggestions? Thanks.

73,
Jack (W0FNQ)

65. Re: [UHFSDR] Factor of 4 off on Si570.exe

Yahoo group: UHFSDR
Date: 2011-02-18 19:30:26 UTC
From: Dave - WB6DHW
Topic: 64 Message: 65

Jack:
It has been a long time since I ran the program. I think it does set X4 as it was designed for the softrocks which use a /4. When you program 2.5 MHz, are you sure you are hearing WWV at 10 MHz and not 5 MHz?. You need 2X your operating frequency out of the Si570(ie 20 MHz for WWV at 10 MHz).
Sounds like things are working OK. If you use PowerSDR-IQ, it has a /2 clock selection that will program the correct frequency.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/18/2011 8:15 AM, Jack wrote:
> Folks,
>
> I am at checking the receiver at step 158 of the manual. I receive the 10 MHz WWV fine but with a setting on the Si700.exe of 2.5 MHz. Up until now all tests were right on; or at least I thought they were. Initially I had problems getting the Si570.exe to set the frequency (Step 72) but I thought I had the problem isolated to a bad connector at H2 and the exe program seemed to work fine. Now, after further assembly, a program setting of 10 MHz produces a 40 MHz output at TP8. I have inspected and reinspected all the soldering associated with U13 and U14 but haven't discovered a bad connection. I am starting to think that U13 may have failed. Any thought or suggestions? Thanks.
>
> 73,
> Jack (W0FNQ)
>
>
>

66. Re: Factor of 4 off on Si570.exe

Yahoo group: UHFSDR
Date: 2011-02-18 20:50:20 UTC
From: Jack
Topic: 64 Message: 66

Thanks Dave -- your assessment was exactly the case. I forgot that the SIS was 2X the op freq therefore 10MHz from the chip was the 5 MHz WWV. On to the next phase of construction. All is well with the world -- spin and wobble under control. I have to wire up the interface to use PowerSDR-IQ.

73,
Jack

--- In UHFSDR@yahoogroups.com, Dave - WB6DHW <brainerd@...> wrote:
>
> Jack:
> It has been a long time since I ran the program. I think it does set X4 as
> it was designed for the softrocks which use a /4. When you program 2.5 MHz, are
> you sure you are hearing WWV at 10 MHz and not 5 MHz?. You need 2X your
> operating frequency out of the Si570(ie 20 MHz for WWV at 10 MHz).
> Sounds like things are working OK. If you use PowerSDR-IQ, it has a /2 clock
> selection that will program the correct frequency.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 2/18/2011 8:15 AM, Jack wrote:
> > Folks,
> >
> > I am at checking the receiver at step 158 of the manual. I receive the 10 MHz WWV fine but with a setting on the Si700.exe of 2.5 MHz. Up until now all tests were right on; or at least I thought they were. Initially I had problems getting the Si570.exe to set the frequency (Step 72) but I thought I had the problem isolated to a bad connector at H2 and the exe program seemed to work fine. Now, after further assembly, a program setting of 10 MHz produces a 40 MHz output at TP8. I have inspected and reinspected all the soldering associated with U13 and U14 but haven't discovered a bad connection. I am starting to think that U13 may have failed. Any thought or suggestions? Thanks.
> >
> > 73,
> > Jack (W0FNQ)
> >
> >
> >
>

67. Next issue with my build

Yahoo group: UHFSDR
Date: 2011-02-18 23:56:22 UTC
From: Jack
Topic: 67 Message: 67

Dave and other folks,

Receiver and Dummy Load tests all went well picking up lots of signals and output seems good. After soldering the T/R RF Switching section, however, I now have an issue. U7 is switching but exactly opposite of the checks in the manual, U2 checks fine. I have the AS157 chip with pins 2 and 3 of H5 connected. There is 5v on receive and 0v on xmit at this H5 jumper; but, pins 10, 12, and 5 of U6 are always 5V. I suspect this is the reason the states of pins 4 and 6 are reversed. I have checked soldering and all seems well. So I think I am left with a defective U6. Any other thoughts. Thanks.

73,
Jack (W0FNQ)

68. Re: [UHFSDR] Next issue with my build

Yahoo group: UHFSDR
Date: 2011-02-19 00:28:58 UTC
From: Dave - WB6DHW
Topic: 67 Message: 68

Jack:
Connect pins 1 and 2 of H5 instead. The circuit was designed for 5V transmit and 0V receive. Pins 10, 12, and 5 of U6 are connected to 5V.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/18/2011 3:56 PM, Jack wrote:
> Dave and other folks,
>
> Receiver and Dummy Load tests all went well picking up lots of signals and output seems good. After soldering the T/R RF Switching section, however, I now have an issue. U7 is switching but exactly opposite of the checks in the manual, U2 checks fine. I have the AS157 chip with pins 2 and 3 of H5 connected. There is 5v on receive and 0v on xmit at this H5 jumper; but, pins 10, 12, and 5 of U6 are always 5V. I suspect this is the reason the states of pins 4 and 6 are reversed. I have checked soldering and all seems well. So I think I am left with a defective U6. Any other thoughts. Thanks.
>
> 73,
> Jack (W0FNQ)
>
>
>
>

69. bandpass

Yahoo group: UHFSDR
Date: 2011-02-25 17:43:01 UTC
From: MIKE DURKIN
Topic: 69 Message: 69

Does anyone offer a surface mount band pass filter for all the bands - for 1W or less?

Mike KC7NOA

Sent on my droid x

70. Re: [UHFSDR] bandpass

Yahoo group: UHFSDR
Date: 2011-02-25 17:51:55 UTC
From: Sid Boyce
Topic: 69 Message: 70

http://wb6dhw.com/For_Sale.html
73 ... Sid.

On 25/02/11 17:43, MIKE DURKIN wrote:
> Does anyone offer a surface mount band pass filter for all the bands -
> for 1W or less?
>
> Mike KC7NOA
>
> Sent on my droid x
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

71. RE: [UHFSDR] bandpass

Yahoo group: UHFSDR
Date: 2011-02-25 20:08:35 UTC
From: MIKE DURKIN
Topic: 69 Message: 71

Thanks ... reading it over later ...

Mike KC7NOA

> To: UHFSDR@yahoogroups.com
> From: sboyce@...
> Date: Fri, 25 Feb 2011 17:51:55 +0000
> Subject: Re: [UHFSDR] bandpass
>
> http://wb6dhw.com/For_Sale.html
> 73 ... Sid.
>
> On 25/02/11 17:43, MIKE DURKIN wrote:
> > Does anyone offer a surface mount band pass filter for all the bands -
> > for 1W or less?
> >
> > Mike KC7NOA
> >
> > Sent on my droid x
> >
> >
>
>
> --
> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
> Senior Staff Specialist, Cricket Coach
> Microsoft Windows Free Zone - Linux used for all Computing Tasks
>
>
>
> ---
>
> Yahoo! Groups Links
>
>
>

72. PCB file

Yahoo group: UHFSDR
Date: 2011-03-25 10:06:35 UTC
From: Dale Yu
Topic: 72 Message: 72

Is there anyone has PCB files for UHFSDR that I could make one to build?
Thanks!

73,
Dale

73. Mini-Kit parts list

Yahoo group: UHFSDR
Date: 2011-04-05 20:47:23 UTC
From: nazimaghabayov
Topic: 73 Message: 73

Hello Dave,

It seems that there is already a queue for a full kits, so I've decided to purchase boards and Mini kits. Could you please provide a parts list for a Mini-Kit? This would help me to exclude components already in a kit.

Thanks,
Nazim

74. Re: [UHFSDR] Mini-Kit parts list

Yahoo group: UHFSDR
Date: 2011-04-06 02:43:26 UTC
From: dave
Topic: 73 Message: 74
Attachments: 1 described; binary payloads are missing from this source WARC

Nazim:

Here is the mini-kit BOM

Dave - WB6DXHW
<http://wb6dhw.com>

On 4/5/2011 1:47 PM, nazimaghabayov wrote:
>
> Hello Dave,
>
> It seems that there is already a queue for a full kits, so I've decided to
> purchase boards and Mini kits. Could you please provide a parts list for a
> Mini-Kit? This would help me to exclude components already in a kit.
>
> Thanks,
> Nazim
>
>
>
>
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 9.0.894 / Virus Database: 271.1.1/3552 - Release Date: 04/05/11 05:05:00
>

75. Re: Mini-Kit parts list

Yahoo group: UHFSDR
Date: 2011-04-06 11:50:58 UTC
From: nazimaghabayov
Topic: 73 Message: 75

Dave, I'd like to purchase two boards. Is it possible to ship em with a registered priority mail? I live in Azerbaijan, non registered mail packages are being lost sometimes. Priority USPS or DHL should be fine. Of course I'll cover delivery.

Thanks a lot, Nazim.

--- In UHFSDR@yahoogroups.com, dave <dave@...> wrote:
>
> Nazim:
>
> Here is the mini-kit BOM
>
> Dave - WB6DXHW
> <http://wb6dhw.com>

76. Re: [UHFSDR] Re: Mini-Kit parts list

Yahoo group: UHFSDR
Date: 2011-04-06 20:05:27 UTC
From: dave
Topic: 73 Message: 76

Nazim:
I just checked at the USPS site. For 3 oz to Azerbaijan, the options are:

International First Class(no tracking) $3.12
Priority Mail $13.95
Registered Service $11.50

Priority plus registered would be $25.45.
International First plus registered would be $14.62.
The nearest DHL drop off point is over 100 miles away, so I would not
consider DHL

Dave - WB6DHW
<http://wb6dhw.com>

On 4/6/2011 4:50 AM, nazimaghabayov wrote:
>
> Dave, I'd like to purchase two boards. Is it possible to ship em with a
> registered priority mail? I live in Azerbaijan, non registered mail packages
> are being lost sometimes. Priority USPS or DHL should be fine. Of course I'll
> cover delivery.
>
> Thanks a lot, Nazim.
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, dave
> <dave@...> wrote:
> >
> > Nazim:
> >
> > Here is the mini-kit BOM
> >
> > Dave - WB6DXHW
> > <http://wb6dhw.com>
>
>
>

77. Re: Mini-Kit parts list

Yahoo group: UHFSDR
Date: 2011-04-07 20:26:03 UTC
From: nazimaghabayov
Topic: 73 Message: 77

Dave: Thanks for looking up the the mail tariffs, but I've just found a nice alternative to registered mail. It's called myus.com, they offer a package consolidation before sending abroad and a real u.s. mail address (no po boxes). I've sent my US shipping address via a personal email to dave <at> buluebird.....
Sorry, my messages regarding mail delivery are a bit offtopic, but they still might be helpful for people living far-far away from US)
Best Regards,
Nazim

--- In UHFSDR@yahoogroups.com, dave <dave@...> wrote:
>
> Nazim:
> I just checked at the USPS site. For 3 oz to Azerbaijan, the options are:
>
> International First Class(no tracking) $3.12
> Priority Mail $13.95
> Registered Service $11.50
>
> Priority plus registered would be $25.45.
> International First plus registered would be $14.62.
> The nearest DHL drop off point is over 100 miles away, so I would not
> consider DHL
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>

78. Operation Above 1 GHz

Yahoo group: UHFSDR
Date: 2011-04-16 05:58:46 UTC
From: vk4tj
Topic: 78 Message: 78

G'day, Dave:

Re: I have had reports of 1296 usage with a different LO. Minicircuits has higher frequency pin compatable mixers.

Do you happen to remember who this was? I wouldn't mind comparing notes with him.

Am I correct in saying: If the ECL flip flops are spec'd to 4 GHZ, the practical top end is 2 GHz?

Thanks & 73
John VK4TJ

PS: Yes, I'm greedy. Like a 1MHz to 700 MHz transceiver not much bigger than a pack of playing cards wasn't way cool enough! :-)

79. Re: [UHFSDR] Operation Above 1 GHz

Yahoo group: UHFSDR
Date: 2011-04-16 06:09:43 UTC
From: dave
Topic: 78 Message: 79

John:
You are correct. I don't remember who it was using it on 1296. The flip flops are spec'd to 4 GHz min.

Dave - WB6DHW
<http://wb6dhw.com>

On 4/15/2011 10:58 PM, vk4tj wrote:
>
> G'day, Dave:
>
> Re: I have had reports of 1296 usage with a different LO. Minicircuits has
> higher frequency pin compatable mixers.
>
> Do you happen to remember who this was? I wouldn't mind comparing notes with him.
>
> Am I correct in saying: If the ECL flip flops are spec'd to 4 GHZ, the
> practical top end is 2 GHz?
>
> Thanks & 73
> John VK4TJ
>
> PS: Yes, I'm greedy. Like a 1MHz to 700 MHz transceiver not much bigger than a
> pack of playing cards wasn't way cool enough! :-)
>
>
>

80. Full kit

Yahoo group: UHFSDR
Date: 2011-04-19 14:43:12 UTC
From: seth_otherpower
Topic: 80 Message: 80

So ... revisiting the topic of full kit ... with out the Si570.

Possibly soon?

And is there a way to get 180Deg phase from a single output that will will work with the divide by two flip/flops ? I want to add a high/low pass for the output of the Si570 to operate on the 3rd harmonic. The first thought was to use a transformer (FIN1002 maybe?)to achieve this.

Mike KC7NOA

81. Re: [UHFSDR] Full kit

Yahoo group: UHFSDR
Date: 2011-04-19 18:00:46 UTC
From: dave
Topic: 80 Message: 81

The mixers will respond to the 3rd harmonic as is. Just put a bandpass filter on the RF input/output at 3/2 times the Si570 frequency. Response will be down just a few dB. The 10 and 15 meter softrocks used to do that. Otherwise, a center tapped transformer, with the center tap connected to 1.25 volts(center of the LVPECL range).

Dave - WB6DHW
<http://wb6dhw.com>

On 4/19/2011 7:43 AM, seth_otherpower wrote:
>
> So ... revisiting the topic of full kit ... with out the Si570.
>
> Possibly soon?
>
> And is there a way to get 180Deg phase from a single output that will will
> work with the divide by two flip/flops ? I want to add a high/low pass for the
> output of the Si570 to operate on the 3rd harmonic. The first thought was to
> use a transformer (FIN1002 maybe?)to achieve this.
>
> Mike KC7NOA
>
>

82. RE: [UHFSDR] Full kit

Yahoo group: UHFSDR
Date: 2011-04-19 19:06:17 UTC
From: MIKE DURKIN
Topic: 80 Message: 82

I was thinking of making the high/low cut at (300Mhz) the out of the Si570 to help with specturial purity (switched hi or low depending on where operation was desired) , <---- might still scrap this idea.
dont know where to get a pandpass for 1.2Ghz or even 2.4Ghz
.... 902 isnt that hard to get (already have them - centered at 915Mhz) on the output (of the combined mixers) ...

For all i know, the computer might not be able to do the image rejection at microwave operation. (heck even the traces might pose a problem at Ghz !!)

What is the highest reported freq any one has tried a UHFSDR at?

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Tue, 19 Apr 2011 11:00:46 -0700
Subject: Re: [UHFSDR] Full kit

The mixers will respond to the 3rd harmonic as is. Just put a bandpass filter on the RF input/output at 3/2 times the Si570 frequency. Response will be down just a few dB. The 10 and 15 meter softrocks used to do that. Otherwise, a center tapped transformer, with the center tap connected to 1.25 volts(center of the LVPECL range).

Dave - WB6DHW
<http://wb6dhw.com>

On 4/19/2011 7:43 AM, seth_otherpower wrote:

So ... revisiting the topic of full kit ... with out the Si570.

Possibly soon?

And is there a way to get 180Deg phase from a single output that will will work with the divide by two flip/flops ? I want to add a high/low pass for the output of the Si570 to operate on the 3rd harmonic. The first thought was to use a transformer (FIN1002 maybe?)to achieve this.

Mike KC7NOA

83. Re: [UHFSDR] Full kit

Yahoo group: UHFSDR
Date: 2011-04-19 20:02:10 UTC
From: dave
Topic: 80 Message: 83

Mike:
Check at MiniCircuits Labs for bpf's. I think someone has used the UHFSDR on 1296 by using an external oscillator. The mixers are rated to 1 GHz, but will probably work at 1296 with slightly higher loss.
The image reject depends on how identical the I and Q channels are. The computer only processes audio. I made a special effort to make the line lengths as close to equal as possible in the 2 channels. I get good rejection at 450, but of course the higher the frequency, the more any small differences will show up.

Dave - WB6DHW
<http://wb6dhw.com>

On 4/19/2011 12:06 PM, MIKE DURKIN wrote:
>
> I was thinking of making the high/low cut at (300Mhz) the out of the Si570
> to help with specturial purity (switched hi or low depending on where
> operation was desired) , <---- might still scrap this idea.
> dont know where to get a pandpass for 1.2Ghz or even 2.4Ghz
> .... 902 isnt that hard to get (already have them - centered at 915Mhz) on the
> output (of the combined mixers) ...
>
> For all i know, the computer might not be able to do the image rejection
> at microwave operation. (heck even the traces might pose a problem at Ghz !!)
>
> What is the highest reported freq any one has tried a UHFSDR at?
>
> Mike KC7NOA
>
>
> ---
> To: UHFSDR@yahoogroups.com
> From: dave@...
> Date: Tue, 19 Apr 2011 11:00:46 -0700
> Subject: Re: [UHFSDR] Full kit
>
> The mixers will respond to the 3rd harmonic as is. Just put a bandpass
> filter on the RF input/output at 3/2 times the Si570 frequency. Response will
> be down just a few dB. The 10 and 15 meter softrocks used to do that.
> Otherwise, a center tapped transformer, with the center tap connected to 1.25
> volts(center of the LVPECL range).
>
> Dave - WB6DHW
> <http://wb6dhw.com> <http://wb6dhw.com/>
>
> On 4/19/2011 7:43 AM, seth_otherpower wrote:

>
> So ... revisiting the topic of full kit ... with out the Si570.
>
> Possibly soon?
>
> And is there a way to get 180Deg phase from a single output that will will
> work with the divide by two flip/flops ? I want to add a high/low pass for
> the output of the Si570 to operate on the 3rd harmonic. The first thought
> was to use a transformer (FIN1002 maybe?)to achieve this.
>
> Mike KC7NOA
>
>
>
>
>

84. Cost

Yahoo group: UHFSDR
Date: 2011-04-20 14:37:33 UTC
From: seth_otherpower
Topic: 84 Message: 84

Any one have an average cost of the rest of the parts needed for the Mini-kit? Digikey or Mouser ?? or?

Mike KC7NOA

85. RE: [UHFSDR] Cost

Yahoo group: UHFSDR
Date: 2011-04-20 16:31:23 UTC
From: The Silver Fox
Topic: 84 Message: 85

Sans 570/ PCB and the mini-kit parts, the cost I am quoting is $110.38 shipped in the US. Your cost buying your own may be slightly less or more depending on shipping and parts prices.

73's

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of seth_otherpower
Sent: Wednesday, April 20, 2011 7:38 AM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Cost

Any one have an average cost of the rest of the parts needed for the Mini-kit? Digikey or Mouser ?? or?

Mike KC7NOA

86. RE: [UHFSDR] Cost

Yahoo group: UHFSDR
Date: 2011-04-20 16:45:15 UTC
From: MIKE DURKIN
Topic: 84 Message: 86

Heck i didnt see (or i missed it) that you had the full kits avaliable -

I do rememebr asking about it with out the Si570 - I have one already.

To: UHFSDR@yahoogroups.com
From: alan.r.hill@...
Date: Wed, 20 Apr 2011 09:31:23 -0700
Subject: RE: [UHFSDR] Cost

Sans 570/ PCB and the mini-kit parts, the cost I am quoting is $110.38 shipped in the US. Your cost buying your own may be slightly less or more depending on shipping and parts prices.
73's
Alan – W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of seth_otherpower
Sent: Wednesday, April 20, 2011 7:38 AM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Cost

Any one have an average cost of the rest of the parts needed for the Mini-kit? Digikey or Mouser ?? or?

Mike KC7NOA

87. Re: [UHFSDR] Cost

Yahoo group: UHFSDR
Date: 2011-04-20 16:50:16 UTC
From: Nazim Agabekov
Topic: 84 Message: 87
Attachments: 1 described; binary payloads are missing from this source WARC

Hi, attached is a digikey bom. Some coilcraft parts, ferrite bead, FST3257 and parts from mini-kit are missing.
You could also order a kit from The Silver Fox, because some digikey parts are not available in quantities less than 10. Silver Fox's complete key is cheaper.

On 04/20/2011 07:37 PM, seth_otherpower wrote:
> Any one have an average cost of the rest of the parts needed for the Mini-kit? Digikey or Mouser ?? or?
>
> Mike KC7NOA
>
>

88. Re: Cost

Yahoo group: UHFSDR
Date: 2011-04-22 19:00:10 UTC
From: seth_otherpower
Topic: 84 Message: 88

So how do I go about paying for a (almost I have a lvds type A Si570 already) full kit?

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
>
> Heck i didnt see (or i missed it) that you had the full kits avaliable -
>
> I do rememebr asking about it with out the Si570 - I have one already.
>
>
>
> To: UHFSDR@yahoogroups.com
> From: alan.r.hill@...
> Date: Wed, 20 Apr 2011 09:31:23 -0700
> Subject: RE: [UHFSDR] Cost
>
>
>
>
>
>
>
>
> Sans 570/ PCB and the mini-kit parts, the cost I am quoting is $110.38 shipped in the US. Your cost buying your own may be slightly less or more depending on shipping and parts prices.
> 73's
> Alan ☐ W6ARH
>
>
>
> From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of seth_otherpower
> Sent: Wednesday, April 20, 2011 7:38 AM
> To: UHFSDR@yahoogroups.com
> Subject: [UHFSDR] Cost
>
>
>
>
>
> Any one have an average cost of the rest of the parts needed for the Mini-kit? Digikey or Mouser ?? or?
>
> Mike KC7NOA
>

89. bandpass filters plots

Yahoo group: UHFSDR
Date: 2011-04-25 15:02:26 UTC
From: dan
Topic: 89 Message: 89

david:

are those filter plots on your website calculated or measured ?

I find it hard to believe they are that good (the eternal skeptic)

It seems the unloaded Q of some of the surface mount inductors is
not that spiffy...

tell me i am wrong....ha

73, w5xz, dan

90. Re: [UHFSDR] bandpass filters plots

Yahoo group: UHFSDR
Date: 2011-04-25 19:27:49 UTC
From: dave
Topic: 89 Message: 90

On 4/25/2011 8:02 AM, dan wrote:
>
> david:
>
> are those filter plots on your website calculated or measured ?
>
> I find it hard to believe they are that good (the eternal skeptic)
>
> It seems the unloaded Q of some of the surface mount inductors is
> not that spiffy...
>
> tell me i am wrong....ha
>
> 73, w5xz, dan
>
>
>
They are measured with my N2PK VNA. True, the Q of the surface inductors is
low.

Dave - WB6DHW
<http://wb6dhw.com>

91. Re: Cost

Yahoo group: UHFSDR
Date: 2011-04-27 02:31:04 UTC
From: jeffthom99
Topic: 84 Message: 91

All,

This looks like a great project. Unfortunately, I have grown a bit long in tooth and hate4 to to be chasing 2 pieces of a 10K R, in ONLY 0805 format, while I may have a bunch in other sizes. :)

Is there a simple, cogent presentation of who is vending parts of the SDR-UHF, what is in each vendor's kit, how much they are asking, and what's left for me to source (i.e. the Si570bb)?

I like the project, not too enthused over the parts sourcing. Also, for whatever reason, Comm(ie)cast has wrecked access to Yahoo groups the past couple days. I get many 404's or just failed TCP comm links. Soooo frustrating!

Thanks for the great work done here and at other Brite-Lite sites for we hams!!. I look forward to setting up a 20m - 70cm rooftopper.

Jeff Thompson, W3HVU
jeff Att 123jeff dot comm

--- In UHFSDR@yahoogroups.com, "seth_otherpower" <Patriot121@...> wrote:
>
> So how do I go about paying for a (almost I have a lvds type A Si570 already) full kit?
>
>
>
> --- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@> wrote:
> >
> >
> > Heck i didnt see (or i missed it) that you had the full kits avaliable -
> >
> > I do rememebr asking about it with out the Si570 - I have one already.
> >
> >
> >
> > To: UHFSDR@yahoogroups.com
> > From: alan.r.hill@
> > Date: Wed, 20 Apr 2011 09:31:23 -0700
> > Subject: RE: [UHFSDR] Cost

> >
> > Sans 570/ PCB and the mini-kit parts, the cost I am quoting is $110.38 shipped in the US. Your cost buying your own may be slightly less or more depending on shipping and parts prices.
> > 73's
> > Alan ☐ W6ARH

92. Re: [UHFSDR] Re: Cost

Yahoo group: UHFSDR
Date: 2011-04-27 11:48:05 UTC
From: Marcel pitzini
Topic: 84 Message: 92

I was able to get most of the small parts from Avnet in the US. They do not have a minimum order if you set up an account and use they web site to order. They were very quick.

73 Marcel
W5BJV

On Wed, Apr 27, 2011 at 4:31 AM, jeffthom99 <jeff@...> wrote:

>
>
> All,
>
> This looks like a great project. Unfortunately, I have grown a bit long in
> tooth and hate4 to to be chasing 2 pieces of a 10K R, in ONLY 0805 format,
> while I may have a bunch in other sizes. :)
>
> Is there a simple, cogent presentation of who is vending parts of the
> SDR-UHF, what is in each vendor's kit, how much they are asking, and what's
> left for me to source (i.e. the Si570bb)?
>
> I like the project, not too enthused over the parts sourcing. Also, for
> whatever reason, Comm(ie)cast has wrecked access to Yahoo groups the past
> couple days. I get many 404's or just failed TCP comm links. Soooo
> frustrating!
>
> Thanks for the great work done here and at other Brite-Lite sites for we
> hams!!. I look forward to setting up a 20m - 70cm rooftopper.
>
> Jeff Thompson, W3HVU
> jeff Att 123jeff dot comm
> ---
>
>
> --- In UHFSDR@yahoogroups.com, "seth_otherpower" <Patriot121@...> wrote:
> >
> > So how do I go about paying for a (almost I have a lvds type A Si570
> already) full kit?
> >
> >
> >
> > --- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@> wrote:
> > >
> > >
> > > Heck i didnt see (or i missed it) that you had the full kits avaliable
> -

> > >
> > > I do rememebr asking about it with out the Si570 - I have one already.
> > >
> > >
> > >
> > > To: UHFSDR@yahoogroups.com
> > > From: alan.r.hill@
> > > Date: Wed, 20 Apr 2011 09:31:23 -0700
> > > Subject: RE: [UHFSDR] Cost
>
> > >
> > > Sans 570/ PCB and the mini-kit parts, the cost I am quoting is $110.38
> shipped in the US. Your cost buying your own may be slightly less or more
> depending on shipping and parts prices.
> > > 73's
> > > Alan – W6ARH
>
>
>

93. Digikey BOM

Yahoo group: UHFSDR
Date: 2011-04-28 07:54:13 UTC
From: brainerdd
Topic: 93 Message: 93

I just up loaded a spreadsheet with all needed items except for the mini-kit, the Si570, headers, and sma connectors. The headers and sma connectors are optional.
If you register at Digikey, you can upload the spreadsheet (as a xls) and order the parts without having to enter in everything. You also have the option to order more than one kit at a time.

Dave - WB6DHW
<http://wb6dhw.com>

94. Kits

Yahoo group: UHFSDR
Date: 2011-04-28 08:10:06 UTC
From: brainerdd
Topic: 94 Message: 94

The Silver Fox (arhill at juno.com) has been selling complete kits including a grade A Si570 and the circuit board. I sell a mini kit that includes the 8 hardest to get items. I also sell the PCB. I just uploaded a spreadsheet with the parts needed to turn the minikit into a full kit. This does not include the Si570. They can be ordered from the Silicon Labs web page. Order the LVPECL output option. The operating frequency is 1/2 that of the Si570, so for 70 cm you need the grade A. If you don't need 70 cm, you can get by with a grade B or even a grade C.

Dave - WB6DHW
<http://wb6dhw.com>

95. Re: [UHFSDR] Re: Cost

Yahoo group: UHFSDR
Date: 2011-04-28 08:15:05 UTC
From: dave
Topic: 84 Message: 95

Jeff:
If you get the PCB, and the minikit from me, the Si570 from Silabs, the BOM I just uploaded can be uploaded the DigiKey for the remaining parts. You have to register at Digikey (free) to be able to upload a BOM.

Dave - WB6DHW
<http://wb6dhw.com>

On 4/26/2011 7:31 PM, jeffthom99 wrote:
>
> All,
>
> This looks like a great project. Unfortunately, I have grown a bit long in
> tooth and hate4 to to be chasing 2 pieces of a 10K R, in ONLY 0805 format,
> while I may have a bunch in other sizes. :)
>
> Is there a simple, cogent presentation of who is vending parts of the SDR-UHF,
> what is in each vendor's kit, how much they are asking, and what's left for me
> to source (i.e. the Si570bb)?
>
> I like the project, not too enthused over the parts sourcing. Also, for
> whatever reason, Comm(ie)cast has wrecked access to Yahoo groups the past
> couple days. I get many 404's or just failed TCP comm links. Soooo frustrating!
>
> Thanks for the great work done here and at other Brite-Lite sites for we
> hams!!. I look forward to setting up a 20m - 70cm rooftopper.
>
> Jeff Thompson, W3HVU
> jeff Att 123jeff dot comm
> ---
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
> "seth_otherpower" <Patriot121@...> wrote:
> >
> > So how do I go about paying for a (almost I have a lvds type A Si570
> already) full kit?
> >
> >
> >
> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, MIKE DURKIN
> <Patriot121@> wrote:
> > >
> > >
> > > Heck i didnt see (or i missed it) that you had the full kits avaliable -
> > >

> > > I do rememebr asking about it with out the Si570 - I have one already.
> > >
> > >
> > >
> > > To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> > > From: alan.r.hill@
> > > Date: Wed, 20 Apr 2011 09:31:23 -0700
> > > Subject: RE: [UHFSDR] Cost
>
> > >
> > > Sans 570/ PCB and the mini-kit parts, the cost I am quoting is $110.38
> shipped in the US. Your cost buying your own may be slightly less or more
> depending on shipping and parts prices.
> > > 73's
> > > Alan -- W6ARH
>
>

96. Re: [UHFSDR] Re: Cost

Yahoo group: UHFSDR
Date: 2011-04-28 13:04:04 UTC
From: Jeff Thompson
Topic: 84 Message: 96

Thanks Dave,

When my address stabilizes in the next few weeks I'll do it that way.
Selling, buying and moving among houses can cause a large interruption
of all fun activities! :)

Thanks again,

Jeff. W3HVU

Quoting dave <dave@...>:

> Jeff:
> If you get the PCB, and the minikit from me, the Si570 from
> Silabs, the BOM I just uploaded can be uploaded the DigiKey for the
> remaining parts. You have to register at Digikey (free) to be able
> to upload a BOM.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 4/26/2011 7:31 PM, jeffthom99 wrote:
>>
>> All,
>>
>> This looks like a great project. Unfortunately, I have grown a bit
>> long in tooth and hate4 to to be chasing 2 pieces of a 10K R, in
>> ONLY 0805 format, while I may have a bunch in other sizes. :)
>>
>> Is there a simple, cogent presentation of who is vending parts of
>> the SDR-UHF, what is in each vendor's kit, how much they are
>> asking, and what's left for me to source (i.e. the Si570bb)?

>SNIP<

>>> >
>>> > To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
>>> > From: alan.r.hill@
>>> > Date: Wed, 20 Apr 2011 09:31:23 -0700
>>> > Subject: RE: [UHFSDR] Cost
>>
>>> >
>>> > Sans 570/ PCB and the mini-kit parts, the cost I am quoting is
>>> $110.38 shipped in the US. Your cost buying your own may be
>>> slightly less or more depending on shipping and parts prices.
>>> > 73's

>>> > Alan -- W6ARH
>>
>>
>
>

Jeff, W3HVU

97. RE: [UHFSDR] Digikey BOM

Yahoo group: UHFSDR
Date: 2011-04-28 14:27:53 UTC
From: MIKE DURKIN
Topic: 93 Message: 97

Where ?? is it part of the Zip on your site?

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Thu, 28 Apr 2011 07:54:13 +0000
Subject: [UHFSDR] Digikey BOM

I just up loaded a spreadsheet with all needed items except for the mini-kit, the Si570, headers, and sma connectors. The headers and sma connectors are optional.
If you register at Digikey, you can upload the spreadsheet (as a xls) and order the parts without having to enter in everything. You also have the option to order more than one kit at a time.

Dave - WB6DHW
<http://wb6dhw.com>

98. RE: [UHFSDR] Digikey BOM

Yahoo group: UHFSDR
Date: 2011-04-28 14:37:38 UTC
From: MIKE DURKIN
Topic: 93 Message: 98

And im looking to see how to upload the BOM ... yep, got registered .... is it a copy/paste type of thing or ?

Mike KC7NOA

To: uhfsdr@yahoogroups.com
From: Patriot121@...
Date: Thu, 28 Apr 2011 07:27:53 -0700
Subject: RE: [UHFSDR] Digikey BOM

Where ?? is it part of the Zip on your site?

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Thu, 28 Apr 2011 07:54:13 +0000
Subject: [UHFSDR] Digikey BOM

I just up loaded a spreadsheet with all needed items except for the mini-kit, the Si570, headers, and sma connectors. The headers and sma connectors are optional.
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Dave - WB6DHW
<http://wb6dhw.com>

99. RE: [UHFSDR] Kits

Yahoo group: UHFSDR
Date: 2011-04-28 15:32:35 UTC
From: The Silver Fox
Topic: 94 Message: 99

I am amazed at the amount of interest indicated by the amount of members but there doesn't seem to be much interest in purchases considering the volume of members. I still have a couple of full kits for sale. I'm not sure if there is enough interest for me to do another round of full kits.

73's

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of brainerdd
Sent: Thursday, April 28, 2011 1:10 AM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Kits

The Silver Fox (arhill at juno.com) has been selling complete kits including a grade A Si570 and the circuit board. I sell a mini kit that includes the 8 hardest to get items. I also sell the PCB. I just uploaded a spreadsheet with the parts needed to turn the minikit into a full kit. This does not include the Si570. They can be ordered from the Silicon Labs web page. Order the LVPECL output option. The operating frequency is 1/2 that of the Si570, so for 70 cm you need the grade A. If you don't need 70 cm, you can get by with a grade B or even a grade C.

Dave - WB6DHW
<http://wb6dhw.com>

100. RE: [UHFSDR] Kits

Yahoo group: UHFSDR
Date: 2011-04-28 15:48:18 UTC
From: MIKE DURKIN
Topic: 94 Message: 100

For me .. funds are quite volatile .... usally i dont have money for radio stuff. So when i do its hard to hide from the XYL - so it gets spent fast usally.
Im sure there is plenty of interest - just no money put forth for that interest.

Its great to have a LF to near microwave tranciver for way under the cost of a TS-2000 !!!!

To: UHFSDR@yahoogroups.com
From: alan.r.hill@...
Date: Thu, 28 Apr 2011 08:32:35 -0700
Subject: RE: [UHFSDR] Kits

I am amazed at the amount of interest indicated by the amount of members but there doesn’t seem to be much interest in purchases considering the volume of members. I still have a couple of full kits for sale. I’m not sure if there is enough interest for me to do another round of full kits.
73’s
Alan – W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of brainerdd
Sent: Thursday, April 28, 2011 1:10 AM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Kits

The Silver Fox (arhill at juno.com) has been selling complete kits including a grade A Si570 and the circuit board. I sell a mini kit that includes the 8 hardest to get items. I also sell the PCB. I just uploaded a spreadsheet with the parts needed to turn the minikit into a full kit. This does not include the Si570. They can be ordered from the Silicon Labs web page. Order the LVPECL output option. The operating frequency is 1/2 that of the Si570, so for 70 cm you need the grade A. If you don't need 70 cm, you can get by with a grade B or even a grade C.

Dave - WB6DHW
<http://wb6dhw.com>

101. RE: [UHFSDR] Kits

Yahoo group: UHFSDR
Date: 2011-04-28 18:29:05 UTC
From: Jeff Thompson
Topic: 94 Message: 101

Alan,

So, what is the price, for cryin' out loud??? I'm wildly interested
at $10.00, but not at all at $1000.00. Somewhere in between, I'd
wager... :)

Thanks & 73's

Jeff, W3HVU

Quoting The Silver Fox <alan.r.hill@...>:

> I am amazed at the amount of interest indicated by the amount of members but
> there doesn't seem to be much interest in purchases considering the volume
> of members. I still have a couple of full kits for sale. I'm not sure if
> there is enough interest for me to do another round of full kits.
>
> 73's
>
> Alan - W6ARH
>

Jeff, W3HVU

102. Re: [UHFSDR] Kits

Yahoo group: UHFSDR
Date: 2011-04-28 19:21:36 UTC
From: John Williams
Topic: 94 Message: 102

Kit price is a good start.

Another issue that has kept me on the sidelines here is what else is needed to build a useful transceiver. Are there add-on's such as i/o controller boards, lpf/bpf arrays, pa, etc? I am sure the existing folks know more of what it is but for the new to sdr folks like me, some better overall info that goes from buying a kit to having a useful station seems to be lacking. Maybe a story or two of what folks have built with the kit to get the juices flowing. Looking at Dave's page hard to tell what is a part of the transceiver and what is part of some other project.

Just my 2 centavos...

John ke5ssh

On 4/28/2011 1:29 PM, Jeff Thompson wrote:
>
> Alan,
>
> So, what is the price, for cryin' out loud??? I'm wildly interested
> at $10.00, but not at all at $1000.00. Somewhere in between, I'd
> wager... :)
>
> Thanks & 73's
>
> Jeff, W3HVU
> ----------
>
> Quoting The Silver Fox <alan.r.hill@...
> <mailto:alan.r.hill%40gmail.com>>:
>
> > I am amazed at the amount of interest indicated by the amount of
> members but
> > there doesn't seem to be much interest in purchases considering the
> volume
> > of members. I still have a couple of full kits for sale. I'm not sure if
> > there is enough interest for me to do another round of full kits.
> >
> > 73's
> >
> > Alan - W6ARH
> >
>
> Jeff, W3HVU
>

>

--

John Williams
WQKA523
KE5SSH

103. RE: [UHFSDR] Kits

Yahoo group: UHFSDR
Date: 2011-04-28 19:37:13 UTC
From: MIKE DURKIN
Topic: 94 Message: 103

Im planning on getting a SDR2GO .. it will controll the Si570 and do SSB Tx/Rx (possibly AM and FM in the future)

Else a VFO from K5BCQ works ... i have one in My Atlas350XL controlling a Si570 "C" modle

....

then lets say that if you went with the controller from K5BCQ you will need a computer to demod the Rx ..... with dual line in for proper nulling of image and for Tx (i guess most programs are set to use the Rx image balance to set the Tx image balance)

just shooting from the hip ....

re-iterate ..... im really leaning twards the SDR2GO, just for stand alone operation .... but/also i already have the computer and sound card requirements ....

THEN >>>>..... still should have band filters and perhaps some kind of AMP .... (im still planning on using the guts of the Atlas 350XL for that too !!!!)

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: KE5SSH@...
Date: Thu, 28 Apr 2011 14:21:36 -0500
Subject: Re: [UHFSDR] Kits

Kit price is a good start.

Another issue that has kept me on the sidelines here is what else is needed to build a useful transceiver. Are there add-on's such as i/o controller boards, lpf/bpf arrays, pa, etc? I am sure the existing folks know more of what it is but for the new to sdr folks like me, some better overall info that goes from buying a kit to having a useful station seems to be lacking. Maybe a story or two of what folks have built with the kit to get the juices flowing. Looking at Dave's page hard to tell what is a part of the transceiver and what is part of some other project.

Just my 2 centavos...

John ke5ssh

On 4/28/2011 1:29 PM, Jeff Thompson wrote:

Alan,

So, what is the price, for cryin' out loud??? I'm wildly interested
at $10.00, but not at all at $1000.00. Somewhere in between, I'd
wager... :)

Thanks & 73's

Jeff, W3HVU

Quoting The Silver Fox <alan.r.hill@...>:

> I am amazed at the amount of interest indicated by the amount of members but
> there doesn't seem to be much interest in purchases considering the volume
> of members. I still have a couple of full kits for sale. I'm not sure if
> there is enough interest for me to do another round of full kits.
>
> 73's
>
> Alan - W6ARH
>

Jeff, W3HVU

--

John Williams
WQKA523
KE5SSH

104. Re: [UHFSDR] Kits

Yahoo group: UHFSDR
Date: Unknown date
From: Glen Overby
Topic: 94 Message: 104

John Williams wrote:
> Another issue that has kept me on the sidelines here is what else is
> needed to build a useful transceiver. Are there add-on's such as i/o
> controller boards, lpf/bpf arrays, pa, etc? I am sure the existing folks

The only BPF I've found on wb6dhw.com is for 1.8 to 30mhz. For a device called a "UHF" SDR, I would expect it's use to be at 50, 144, 222 and/or 432 mhz!

I used ELSIE to design a 3-Pole BPF for 6m and 2m; I've only built the 2m one so far and it didn't perform well enough to use.

I found this design for a 2m BPF, but haven't had a chance to build it yet:

http://yu1lm.qrpradio.com/2m%20BP%20FILTER-YU1LM.pdf

For a 2m brick, I found this design:

http://www.aa1yn.com/dsp-10/brick/brick.html

which is similar to amps sold by Down East Microwave.

Glen, kc0iyt

105. Re: [UHFSDR] Kits

Yahoo group: UHFSDR
Date: 2011-04-28 20:43:32 UTC
From: John
Topic: 94 Message: 105

> John Williams wrote:
>> Another issue that has kept me on the sidelines here is what else is
>> needed to build a useful transceiver. Are there add-on's such as i/o
>> controller boards, lpf/bpf arrays, pa, etc? I am sure the existing folks

I agree, documentation on what else is needed to build a complete transceiver, block diagram, band pass filters, PA filters,
software, interconnections etc is lacking. Its certainly kept me on the sidelines too.

John

106. Re: [UHFSDR] Digikey BOM

Yahoo group: UHFSDR
Date: 2011-04-28 21:00:03 UTC
From: dave
Topic: 93 Message: 106

Mike:
I uploaded it to the files area of this group. Later today, I will upload it
to my web page.

Dave - WB6DHW
<http://wb6dhw.com>

On 4/28/2011 7:27 AM, MIKE DURKIN wrote:
>
> Where ?? is it part of the Zip on your site?
>
> Mike KC7NOA
>
> ---
> To: UHFSDR@yahoogroups.com
> From: dave@...
> Date: Thu, 28 Apr 2011 07:54:13 +0000
> Subject: [UHFSDR] Digikey BOM
>
> I just up loaded a spreadsheet with all needed items except for the mini-kit,
> the Si570, headers, and sma connectors. The headers and sma connectors are
> optional.
> If you register at Digikey, you can upload the spreadsheet (as a xls) and
> order the parts without having to enter in everything. You also have the
> option to order more than one kit at a time.
>
> Dave - WB6DHW
> <http://wb6dhw.com <http://wb6dhw.com/>>
>
>
>
>

107. Re: [UHFSDR] Digikey BOM

Yahoo group: UHFSDR
Date: 2011-04-28 21:07:53 UTC
From: dave
Topic: 93 Message: 107

Mike:
After logging in, go to "MyDigikey". Under "Quote/Ordering" select "Parts List / BOM Manager <https://ordering.digikey.com/RegisteredUser/BOMWizard.aspx>". Under BOM's/Kits select "Create New BOM (Upload File) <https://ordering.digikey.com/RegisteredUser/OrderFileUpload.aspx?bom=y&ppp=25>". Then check upload type XLS and upload the spreadsheet.
I could not figure out a way to share my BOM on Digikey even though it is public.

Dave - WB6DHW
<http://wb6dhw.com>

On 4/28/2011 7:37 AM, MIKE DURKIN wrote:
>
> And im looking to see how to upload the BOM ... yep, got registered .... is it
> a copy/paste type of thing or ?
>
> Mike KC7NOA
>
> ---
>

108. Re: [UHFSDR] Kits

Yahoo group: UHFSDR
Date: 2011-04-28 21:26:12 UTC
From: dave
Topic: 94 Message: 108

John:
You will need some way to control the Si570 - either a parallel port or a Si570 controller board(I don't sell any, but several are available). You will also need band pass filters for receive. My BPF board works for that. You will also need low pass filters for transmit and unless you only want to run 20 mW or so, an amplifier. I have a few prototype 100W low pass filter boards and expect 100W out - 10mW in amplifier boards tomorrow.

Dave - WB6DHW
<http://wb6dhw.com>

On 4/28/2011 12:21 PM, John Williams wrote:
>
> Kit price is a good start.
>
> Another issue that has kept me on the sidelines here is what else is needed to
> build a useful transceiver. Are there add-on's such as i/o controller boards,
> lpf/bpf arrays, pa, etc? I am sure the existing folks know more of what it is
> but for the new to sdr folks like me, some better overall info that goes from
> buying a kit to having a useful station seems to be lacking. Maybe a story or
> two of what folks have built with the kit to get the juices flowing. Looking
> at Dave's page hard to tell what is a part of the transceiver and what is part
> of some other project.
>
> Just my 2 centavos...
>
> John ke5ssh
>
> On 4/28/2011 1:29 PM, Jeff Thompson wrote:
>
>> Alan,
>>
>> So, what is the price, for cryin' out loud??? I'm wildly interested
>> at $10.00, but not at all at $1000.00. Somewhere in between, I'd
>> wager... :)
>>
>> Thanks & 73's
>>
>> Jeff, W3HVU
>> ----------
>>
>> Quoting The Silver Fox <alan.r.hill@... <mailto:alan.r.hill%40gmail.com>>:
>>
>> > I am amazed at the amount of interest indicated by the amount of members but
>> > there doesn't seem to be much interest in purchases considering the volume

>> > of members. I still have a couple of full kits for sale. I'm not sure if
>> > there is enough interest for me to do another round of full kits.
>> >
>> > 73's
>> >
>> > Alan - W6ARH
>> >
>>
>> Jeff, W3HVU
>>
>
> --
>
> John Williams
> WQKA523
> KE5SSH
>
>
>
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 9.0.894 / Virus Database: 271.1.1/3602 - Release Date: 04/27/11 23:34:00
>

109. Re: [UHFSDR] Kits

Yahoo group: UHFSDR
Date: 2011-04-28 21:32:12 UTC
From: dave
Topic: 94 Message: 109

John:
You could use a 2nd BPF board for the VHF/UHF bands(would have to design your own filter) or could omit one or more of the HF filters if you don't operate on the whole HF range.

Dave - WB6DHW
<http://wb6dhw.com>

On 4/28/2011 12:57 PM, Glen Overby wrote:
>
>
> John Williams wrote:
> > Another issue that has kept me on the sidelines here is what else is
> > needed to build a useful transceiver. Are there add-on's such as i/o
> > controller boards, lpf/bpf arrays, pa, etc? I am sure the existing folks
>
> The only BPF I've found on wb6dhw.com is for 1.8 to 30mhz. For a device
> called a "UHF" SDR, I would expect it's use to be at 50, 144, 222 and/or 432
> mhz!
>
> I used ELSIE to design a 3-Pole BPF for 6m and 2m; I've only built the 2m one
> so far and it didn't perform well enough to use.
>
> I found this design for a 2m BPF, but haven't had a chance to build it yet:
>
> http://yu1lm.qrpradio.com/2m%20BP%20FILTER-YU1LM.pdf
>
> For a 2m brick, I found this design:
>
> http://www.aa1yn.com/dsp-10/brick/brick.html
>
> which is similar to amps sold by Down East Microwave.
>
> Glen, kc0iyt
>
>
>

110. Re: [UHFSDR] Kits

Yahoo group: UHFSDR
Date: 2011-04-28 21:51:02 UTC
From: John Williams
Topic: 94 Message: 110

Dave,

Thanks for the reply - some further comments...

To what effect does the higher frequency cause unanticipated side effects? I have always understood that kit building gets more difficult WRT shielding, types of coax, etc. Having a few "experienced" souls blazing the trail and documenting how they got there is missing from the community discussion, and I believe that may be causing a lack of adoption of what appears to be a dynamite design. It is one thing to say "here is what you need" and another to say "here is what he did to get it working FB".

John

On 4/28/2011 4:32 PM, dave wrote:
>
> John:
> You could use a 2nd BPF board for the VHF/UHF bands(would have to
> design your own filter) or could omit one or more of the HF filters if
> you don't operate on the whole HF range.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 4/28/2011 12:57 PM, Glen Overby wrote:
>
>>
>> John Williams wrote:
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>> > needed to build a useful transceiver. Are there add-on's such as i/o
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>> folks
>>
>> The only BPF I've found on wb6dhw.com is for 1.8 to 30mhz. For a device
>> called a "UHF" SDR, I would expect it's use to be at 50, 144, 222
>> and/or 432
>> mhz!
>>
>> I used ELSIE to design a 3-Pole BPF for 6m and 2m; I've only built
>> the 2m one
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>> I found this design for a 2m BPF, but haven't had a chance to build
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>> http://yu1lm.qrpradio.com/2m%20BP%20FILTER-YU1LM.pdf
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>> For a 2m brick, I found this design:
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>> http://www.aa1yn.com/dsp-10/brick/brick.html
>>
>> which is similar to amps sold by Down East Microwave.
>>
>> Glen, kc0iyt
>>
>>
>
>

--

John Williams
WQKA523
KE5SSH

111. RE: [UHFSDR] Kits

Yahoo group: UHFSDR
Date: 2011-04-29 04:33:29 UTC
From: MIKE DURKIN
Topic: 94 Message: 111

Well, iv sent 202$ usd for the full kit. Any one interested in my extra Si570?

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Thu, 28 Apr 2011 08:10:06 +0000
Subject: [UHFSDR] Kits

The Silver Fox (arhill at juno.com) has been selling complete kits including a grade A Si570 and the circuit board. I sell a mini kit that includes the 8 hardest to get items. I also sell the PCB. I just uploaded a spreadsheet with the parts needed to turn the minikit into a full kit. This does not include the Si570. They can be ordered from the Silicon Labs web page. Order the LVPECL output option. The operating frequency is 1/2 that of the Si570, so for 70 cm you need the grade A. If you don't need 70 cm, you can get by with a grade B or even a grade C.

Dave - WB6DHW

<http://wb6dhw.com>

112. Re: [UHFSDR] Kits

Yahoo group: UHFSDR
Date: 2011-04-29 12:42:39 UTC
From: Chuck Nolin
Topic: 94 Message: 112

Hello Mike,

I am very interested in your chip. Let me know?

Thanks;
Chuck Nolin
WA6LTV/4

----- Original Message -----
From: "MIKE DURKIN" <Patriot121@...>
To: uhfsdr@yahoogroups.com
Sent: Friday, April 29, 2011 12:33:29 AM
Subject: RE: [UHFSDR] Kits

Well, iv sent 202$ usd for the full kit. Any one interested in my extra Si570?

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Thu, 28 Apr 2011 08:10:06 +0000
Subject: [UHFSDR] Kits

The Silver Fox (arhill at juno.com) has been selling complete kits including a grade A Si570 and the circuit board. I sell a mini kit that includes the 8 hardest to get items. I also sell the PCB. I just uploaded a spreadsheet with the parts needed to turn the minikit into a full kit. This does not include the Si570. They can be ordered from the Silicon Labs web page. Order the LVPECL output option. The operating frequency is 1/2 that of the Si570, so for 70 cm you need the grade A. If you don't need 70 cm, you can get by with a grade B or even a grade C.

Dave - WB6DHW
< http://wb6dhw.com >

113. Re: Kits

Yahoo group: UHFSDR
Date: 2011-04-29 13:35:24 UTC
From: seth_otherpower
Topic: 94 Message: 113

The Si570 is a BBA000107B For anyone interested ...

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
> Well, iv sent 202$ usd for the full kit. Any one interested in my extra Si570?
>
> To: UHFSDR@yahoogroups.com
> From: dave@...
> Date: Thu, 28 Apr 2011 08:10:06 +0000
> Subject: [UHFSDR] Kits
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>
>
>
> Dave - WB6DHW

>
> <http://wb6dhw.com>
>

114. Re: [UHFSDR] Re: Kits, CHIP

Yahoo group: UHFSDR
Date: 2011-04-29 13:53:28 UTC
From: Chuck Nolin
Topic: 94 Message: 114

Hello,
I am interested in your chip.Please contact me off the list...

Thanks'

Chuck Nolin
WA6LTV/4

----- Original Message -----
From: "seth_otherpower" <Patriot121@...>
To: UHFSDR@yahoogroups.com
Sent: Friday, April 29, 2011 9:35:24 AM
Subject: [UHFSDR] Re: Kits

The Si570 is a BBA000107B For anyone interested ...

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
> Well, iv sent 202$ usd for the full kit. Any one interested in my extra Si570?
>
> To: UHFSDR@yahoogroups.com
> From: dave@...
> Date: Thu, 28 Apr 2011 08:10:06 +0000
> Subject: [UHFSDR] Kits
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>
>
>
> Dave - WB6DHW
>
> <http://wb6dhw.com>
>

Yahoo! Groups Links

115. Re: Kits

Yahoo group: UHFSDR
Date: 2011-04-29 15:23:39 UTC
From: seth_otherpower
Topic: 94 Message: 115

What spec is the Si570 that your sending with the full kit alan?

--- In UHFSDR@yahoogroups.com, "The Silver Fox" <alan.r.hill@...> wrote:
>
> I am amazed at the amount of interest indicated by the amount of members but
> there doesn't seem to be much interest in purchases considering the volume
> of members. I still have a couple of full kits for sale. I'm not sure if
> there is enough interest for me to do another round of full kits.
>
> 73's
>
> Alan - W6ARH
>
>
>
> From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
> brainerdd
> Sent: Thursday, April 28, 2011 1:10 AM
> To: UHFSDR@yahoogroups.com
> Subject: [UHFSDR] Kits
>
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>
> The Silver Fox (arhill at juno.com) has been selling complete kits including
> a grade A Si570 and the circuit board. I sell a mini kit that includes the 8
> hardest to get items. I also sell the PCB. I just uploaded a spreadsheet
> with the parts needed to turn the minikit into a full kit. This does not
> include the Si570. They can be ordered from the Silicon Labs web page. Order
> the LVPECL output option. The operating frequency is 1/2 that of the Si570,
> so for 70 cm you need the grade A. If you don't need 70 cm, you can get by
> with a grade B or even a grade C.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>

116. RE: [UHFSDR] Re: Kits

Yahoo group: UHFSDR
Date: 2011-04-29 16:53:00 UTC
From: The Silver Fox
Topic: 94 Message: 116

The Si570 that is in the kits is 570AAA000514DG. It is a full range chip but is not the best one available. The chip is second to the best and is spec'ed well enough to support the kit while keeping the price more reasonable. Buying the best chip adds almost $60 to the cost of the kit and considering the difference it isn't recommended.

73's

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of seth_otherpower
Sent: Friday, April 29, 2011 8:24 AM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Re: Kits

What spec is the Si570 that your sending with the full kit alan?

--- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com> , "The Silver Fox" <alan.r.hill@...> wrote:
>
> I am amazed at the amount of interest indicated by the amount of members but
> there doesn't seem to be much interest in purchases considering the volume
> of members. I still have a couple of full kits for sale. I'm not sure if
> there is enough interest for me to do another round of full kits.
>
> 73's
>
> Alan - W6ARH
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>
>
> From: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com> [mailto:UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>] On Behalf Of
> brainerdd
> Sent: Thursday, April 28, 2011 1:10 AM
> To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> Subject: [UHFSDR] Kits
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>
> The Silver Fox (arhill at juno.com) has been selling complete kits

including
> a grade A Si570 and the circuit board. I sell a mini kit that includes the
8
> hardest to get items. I also sell the PCB. I just uploaded a spreadsheet
> with the parts needed to turn the minikit into a full kit. This does not
> include the Si570. They can be ordered from the Silicon Labs web page.
Order
> the LVPECL output option. The operating frequency is 1/2 that of the
Si570,
> so for 70 cm you need the grade A. If you don't need 70 cm, you can get by
> with a grade B or even a grade C.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>

117. RE: [UHFSDR] Re: Kits

Yahoo group: UHFSDR
Date: 2011-04-29 18:15:50 UTC
From: MIKE DURKIN
Topic: 94 Message: 117

Thankyou, Looks like the 1 I already have is the better Si570. Looks like i would be better off selling the 1 that comes in the kit.

To: UHFSDR@yahoogroups.com
From: alan.r.hill@...
Date: Fri, 29 Apr 2011 09:53:00 -0700
Subject: RE: [UHFSDR] Re: Kits

The Si570 that is in the kits is 570AAA000514DG. It is a full range chip but is not the best one available. The chip is second to the best and is spec’ed well enough to support the kit while keeping the price more reasonable. Buying the best chip adds almost $60 to the cost of the kit and considering the difference it isn’t recommended.
73’sAlan – W6ARH From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of seth_otherpower
Sent: Friday, April 29, 2011 8:24 AM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Re: Kits What spec is the Si570 that your sending with the full kit alan?

--- In UHFSDR@yahoogroups.com, "The Silver Fox" <alan.r.hill@...> wrote:
>
> I am amazed at the amount of interest indicated by the amount of members but
> there doesn't seem to be much interest in purchases considering the volume
> of members. I still have a couple of full kits for sale. I'm not sure if
> there is enough interest for me to do another round of full kits.
>
> 73's
>
> Alan - W6ARH
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>
>
> From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
> brainerdd
> Sent: Thursday, April 28, 2011 1:10 AM
> To: UHFSDR@yahoogroups.com
> Subject: [UHFSDR] Kits
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>
> The Silver Fox (arhill at juno.com) has been selling complete kits including
> a grade A Si570 and the circuit board. I sell a mini kit that includes the 8
> hardest to get items. I also sell the PCB. I just uploaded a spreadsheet
> with the parts needed to turn the minikit into a full kit. This does not
> include the Si570. They can be ordered from the Silicon Labs web page. Order

> the LVPECL output option. The operating frequency is 1/2 that of the Si570,
> so for 70 cm you need the grade A. If you don't need 70 cm, you can get by
> with a grade B or even a grade C.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>

118. Re: [UHFSDR] Re: Kits

Yahoo group: UHFSDR
Date: 2011-04-29 20:05:29 UTC
From: dave
Topic: 94 Message: 118

The only difference is in the "overall stability". That is the initial frequency accuracy(which you calibrate to the exact frequency, so doesn't matter) and the temperature variation. Unless you're going between Death Valley in Summer and the Arctic in winter, I don't think you would notice the difference.

Dave - WB6DHW
<http://wb6dhw.com>

On 4/29/2011 9:53 AM, The Silver Fox wrote:
>
> The Si570 that is in the kits is 570AAA000514DG. It is a full range chip but
> is not the best one available. The chip is second to the best and is spec'ed
> well enough to support the kit while keeping the price more reasonable.
> Buying the best chip adds almost $60 to the cost of the kit and considering
> the difference it isn't recommended.
>
> 73's
>
> Alan -- W6ARH
>
> *From:*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] *On Behalf Of
> *seth_otherpower
> *Sent:* Friday, April 29, 2011 8:24 AM
> *To:* UHFSDR@yahoogroups.com
> *Subject:* [UHFSDR] Re: Kits
>
> What spec is the Si570 that your sending with the full kit alan?
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, "The Silver
> Fox" <alan.r.hill@...> wrote:
> >
> > I am amazed at the amount of interest indicated by the amount of members but
> > there doesn't seem to be much interest in purchases considering the volume
> > of members. I still have a couple of full kits for sale. I'm not sure if
> > there is enough interest for me to do another round of full kits.
> >
> > 73's
> >
> > Alan - W6ARH
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> >
> >
> > From: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> [mailto:UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>] On Behalf Of
> > brainerdd

> > Sent: Thursday, April 28, 2011 1:10 AM
> > To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> > Subject: [UHFSDR] Kits
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> > The Silver Fox (arhill at juno.com) has been selling complete kits including
> > a grade A Si570 and the circuit board. I sell a mini kit that includes the 8
> > hardest to get items. I also sell the PCB. I just uploaded a spreadsheet
> > with the parts needed to turn the minikit into a full kit. This does not
> > include the Si570. They can be ordered from the Silicon Labs web page. Order
> > the LVPECL output option. The operating frequency is 1/2 that of the Si570,
> > so for 70 cm you need the grade A. If you don't need 70 cm, you can get by
> > with a grade B or even a grade C.
> >
> > Dave - WB6DHW
> > <http://wb6dhw.com>
> >
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>

119. USB to Parallel Adapter?

Yahoo group: UHFSDR
Date: 2011-04-30 16:32:12 UTC
From: n1gp
Topic: 119 Message: 119

I don't have a parallel port on my PC.

Does anyone know if a USB to Parallel Adapter
might work?

-Rick

120. RE: [UHFSDR] USB to Parallel Adapter?

Yahoo group: UHFSDR
Date: 2011-05-01 03:20:39 UTC
From: MIKE DURKIN
Topic: 119 Message: 120

Why do you feel you need an adapter - to a parallel port?

To: UHFSDR@yahoogroups.com
From: n1gp@...
Date: Sat, 30 Apr 2011 16:32:12 +0000
Subject: [UHFSDR] USB to Parallel Adapter?

I don't have a parallel port on my PC.

Does anyone know if a USB to Parallel Adapter

might work?

-Rick

121. Re: USB to Parallel Adapter?

Yahoo group: UHFSDR
Date: 2011-05-01 15:35:58 UTC
From: n1gp
Topic: 119 Message: 121

Because if you buy the WB6HDW board it is designed to be controlled via the parallel port. Is the one sold by W6ARH different?

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
> Why do you feel you need an adapter - to a parallel port?
>
> To: UHFSDR@yahoogroups.com
> From: n1gp@...
> Date: Sat, 30 Apr 2011 16:32:12 +0000
> Subject: [UHFSDR] USB to Parallel Adapter?
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> I don't have a parallel port on my PC.
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> Does anyone know if a USB to Parallel Adapter
>
> might work?
>
>
>

> -Rick
>

122. Re: [UHFSDR] Re: USB to Parallel Adapter?

Yahoo group: UHFSDR
Date: 2011-05-01 16:32:21 UTC
From: Peter Johnson
Topic: 119 Message: 122

Hi
I think you will find most USB to Parallel Ports
are only fit for Printers they do not have Bi-Directional properties

I may be wrong there maybe a suitable one out there somewhere.

Regards Peter F1VKK

On 01/05/2011 17:35, n1gp wrote:
> Because if you buy the WB6HDW board it is designed to be controlled via the parallel port. Is the one sold by W6ARH different?
>
>
> --- In UHFSDR@yahoogroups.com, MIKE DURKIN<Patriot121@...> wrote:
>> Why do you feel you need an adapter - to a parallel port?
>>
>> To: UHFSDR@yahoogroups.com
>> From: n1gp@...
>> Date: Sat, 30 Apr 2011 16:32:12 +0000
>> Subject: [UHFSDR] USB to Parallel Adapter?
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>> I don't have a parallel port on my PC.
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>> Does anyone know if a USB to Parallel Adapter
>>
>> might work?
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>> -Rick
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> Yahoo! Groups Links
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123. Re: [UHFSDR] Re: USB to Parallel Adapter?

Yahoo group: UHFSDR
Date: 2011-05-01 16:38:41 UTC
From: Sid Boyce
Topic: 119 Message: 123

An alternative USB interface is the UBW from sparkfun.com which can be programmed with 9V1AL's UBW-x2.hex firmware.
73 ... Sid.

On 01/05/11 16:35, n1gp wrote:
> Because if you buy the WB6HDW board it is designed to be controlled via
> the parallel port. Is the one sold by W6ARH different?
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, MIKE
> DURKIN <Patriot121@...> wrote:
> >
> > Why do you feel you need an adapter - to a parallel port?
> >
> > To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> > From: n1gp@...
> > Date: Sat, 30 Apr 2011 16:32:12 +0000
> > Subject: [UHFSDR] USB to Parallel Adapter?
> >

> > I don't have a parallel port on my PC.
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> >
> > Does anyone know if a USB to Parallel Adapter
> >
> > might work?
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> >
> > -Rick
> >
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>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

124. RE: [UHFSDR] Re: USB to Parallel Adapter?

Yahoo group: UHFSDR
Date: 2011-05-01 16:56:55 UTC
From: The Silver Fox
Topic: 119 Message: 124

I believe Peter's PA/BPF/I2C softrock kit will work also. It is overkill
but is still an option.
73's
Alan - W6ARH

-----Original Message-----
From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
Sid Boyce
Sent: Sunday, May 01, 2011 9:39 AM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: USB to Parallel Adapter?

An alternative USB interface is the UBW from sparkfun.com which can be
programmed with 9V1AL's UBW-x2.hex firmware.
73 ... Sid.

On 01/05/11 16:35, n1gp wrote:
> Because if you buy the WB6HDW board it is designed to be controlled via
> the parallel port. Is the one sold by W6ARH different?
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, MIKE
> DURKIN <Patriot121@...> wrote:
> >
> > Why do you feel you need an adapter - to a parallel port?
> >
> > To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> > From: n1gp@...
> > Date: Sat, 30 Apr 2011 16:32:12 +0000
> > Subject: [UHFSDR] USB to Parallel Adapter?
> >

> > I don't have a parallel port on my PC.
> >
> >
> >
> > Does anyone know if a USB to Parallel Adapter
> >
> > might work?
> >
> >
> >
> > -Rick
> >
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>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

---

Yahoo! Groups Links

125. Re: [UHFSDR] Re: USB to Parallel Adapter?

Yahoo group: UHFSDR
Date: 2011-05-01 19:11:15 UTC
From: Sid Boyce
Topic: 119 Message: 125

The ATTiny85 USB from the softrock is even easier. Tony should be able
to supply either a made up board or a programmed ATTiny85 and the rest
of the circuitry would be very easy to put together.
73 ... Sid.

On 01/05/11 17:56, The Silver Fox wrote:
> I believe Peter's PA/BPF/I2C softrock kit will work also. It is overkill
> but is still an option.
> 73's
> Alan - W6ARH
>
> -----Original Message-----
> From: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> [mailto:UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>] On
> Behalf Of
> Sid Boyce
> Sent: Sunday, May 01, 2011 9:39 AM
> To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> Subject: Re: [UHFSDR] Re: USB to Parallel Adapter?
>
> An alternative USB interface is the UBW from sparkfun.com which can be
> programmed with 9V1AL's UBW-x2.hex firmware.
> 73 ... Sid.
>
> On 01/05/11 16:35, n1gp wrote:
> > Because if you buy the WB6HDW board it is designed to be controlled via
> > the parallel port. Is the one sold by W6ARH different?
> >
> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> <mailto:UHFSDR%40yahoogroups.com>, MIKE
> > DURKIN <Patriot121@...> wrote:
> > >
> > > Why do you feel you need an adapter - to a parallel port?
> > >
> > > To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> <mailto:UHFSDR%40yahoogroups.com>
> > > From: n1gp@...
> > > Date: Sat, 30 Apr 2011 16:32:12 +0000
> > > Subject: [UHFSDR] USB to Parallel Adapter?
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>
> > > I don't have a parallel port on my PC.
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> > > Does anyone know if a USB to Parallel Adapter
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> > > -Rick
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> Senior Staff Specialist, Cricket Coach
> Microsoft Windows Free Zone - Linux used for all Computing Tasks
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> Yahoo! Groups Links
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Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

126. HSUSB

Yahoo group: UHFSDR
Date: 2011-05-01 19:24:36 UTC
From: Colin
Topic: 126 Message: 126

Having a problem with the HSUSB
Installed the software pluged it in.
Windows cant load a driver????????????
(win 7 x 64)

Are there any notes on what i have to do to set this up ready for the
UHF SDR

thanks Colin

127. Re: [UHFSDR] Re: USB to Parallel Adapter?

Yahoo group: UHFSDR
Date: 2011-05-01 20:48:23 UTC
From: dave
Topic: 119 Message: 127

My board is actually requires a I2C control. W6ARH gets the UHFSDR PCB's
from me.

Dave - WB6DHW
<http://wb6dhw.com>

On 5/1/2011 8:35 AM, n1gp wrote:
>
> Because if you buy the WB6HDW board it is designed to be controlled via the
> parallel port. Is the one sold by W6ARH different?
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, MIKE DURKIN
> <Patriot121@...> wrote:
> >
> > Why do you feel you need an adapter - to a parallel port?
> >
> > To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> > From: n1gp@...
> > Date: Sat, 30 Apr 2011 16:32:12 +0000
> > Subject: [UHFSDR] USB to Parallel Adapter?
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> > I don't have a parallel port on my PC.

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> > Does anyone know if a USB to Parallel Adapter
> >
> > might work?
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> > -Rick
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>
>

128. Re: [UHFSDR] HSUSB

Yahoo group: UHFSDR
Date: 2011-05-01 21:03:57 UTC
From: dave
Topic: 126 Message: 128

There on notes on the PowerSDR-IQ webpage on setting up the HSUSB board for the UHFSDR and PowerSDR-IQ . It could be a win 7 X64bit problem. They require signed drivers. I have not tried it on win7 X64(I do have win7 X64 on my laptop and win7 X32 on a desktop). I would expect that Cypress would have a Win7 X64 driver for the CY7C68013A(they sell them by the millions). Perhaps someone else has been successful. I will check later to see if I uploaded the PowerSDR-IQ instructions. If not, I will do so.

Dave - WB6DHW
<http://wb6dhw.com>

On 5/1/2011 12:24 PM, Colin wrote:
>
> Having a problem with the HSUSB
> Installed the software pluged it in.
> Windows cant load a driver????????????
> (win 7 x 64)
>
> Are there any notes on what i have to do to set this up ready for the
> UHF SDR
>
> thanks Colin
>
>
>

129. Re: [UHFSDR] HSUSB

Yahoo group: UHFSDR
Date: 2011-05-01 22:34:05 UTC
From: dave
Topic: 126 Message: 129

The PowerSDR-IQ setup for the HSUSB is at
<http://code.google.com/p/powersdr-iq/downloads/list>
I use PowerSDR-IQ v1.12.20. I have not tried it with the HSUSB board since
all my computers have a parallel port. I also have not tried it on Win7 yet.

Dave - WB6DHW
<http://wb6dhw.com>

On 5/1/2011 12:24 PM, Colin wrote:
>
> Having a problem with the HSUSB
> Installed the software pluged it in.
> Windows cant load a driver????????????
> (win 7 x 64)
>
> Are there any notes on what i have to do to set this up ready for the
> UHF SDR
>
> thanks Colin
>
>
>

130. Re: USB to Parallel Adapter?

Yahoo group: UHFSDR
Date: 2011-05-02 14:05:01 UTC
From: n1gp
Topic: 119 Message: 130

Dave, just to get this clearly in to my head, you are NOT saying that it can't be controlled by the parallel port? I ask because in your UHFSDR Assembly manual, page 10, it states that it can:

PowerSDR-IQ includes provisions for controlling the Si570 and the T/R line of the UHFSDR. The parallel port connections are different than other PowewrSDR versions.

UHFSDR db25(Parallel Port)

H1-1 connect to 5V TP next to H1
H1-2 19 Ground
H1-3 1 I2C SDA for Si570
H1-4 16 I2C SCL for Si570
H2-3 25 Ground
P2-1 8 /Rx Tx

--- In UHFSDR@yahoogroups.com, dave <dave@...> wrote:
>
> My board is actually requires a I2C control. W6ARH gets the UHFSDR PCB's
> from me.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 5/1/2011 8:35 AM, n1gp wrote:
> >
> > Because if you buy the WB6HDW board it is designed to be controlled via the
> > parallel port. Is the one sold by W6ARH different?
> >
> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, MIKE DURKIN
> > <Patriot121@> wrote:
> > >
> > > Why do you feel you need an adapter - to a parallel port?
> > >
> > > To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> > > From: n1gp@
> > > Date: Sat, 30 Apr 2011 16:32:12 +0000
> > > Subject: [UHFSDR] USB to Parallel Adapter?
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> > > I don't have a parallel port on my PC.
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> > > Does anyone know if a USB to Parallel Adapter
> > >
> > > might work?
> > >
> > >
> > >
> > > -Rick
> > >
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```

131. HSUSB

Yahoo group: UHFSDR
Date: 2011-05-02 17:55:14 UTC
From: Robert Lorenzini
Topic: 126 Message: 131

IIRC the hsusb requires the output lines to be loaded in order to enumerate. I wasted much time with this but what's new. Sometimes I could get it to reset my loading the pins with my fingers.

Bob - wd6dod

132. Re: Kits

Yahoo group: UHFSDR
Date: 2011-05-02 18:29:48 UTC
From: Jason R
Topic: 94 Message: 132

Sorry if this has already been asked, but is there a full blown PCB and all on-board parts kit available? If so, what is the price? I can only find reference to the board and mini-kit on the website.

Thanks!
Jason - KE4NYV
RPC Electronics, LLC
www.rpc-electronics.com

--- In UHFSDR@yahoogroups.com, dave <dave@...> wrote:
>
> The only difference is in the "overall stability". That is the initial
> frequency accuracy(which you calibrate to the exact frequency, so doesn't
> matter) and the temperature variation. Unless you're going between Death Valley
> in Summer and the Arctic in winter, I don't think you would notice the difference.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 4/29/2011 9:53 AM, The Silver Fox wrote:
> >
> > The Si570 that is in the kits is 570AAA000514DG. It is a full range chip but
> > is not the best one available. The chip is second to the best and is spec'ed
> > well enough to support the kit while keeping the price more reasonable.
> > Buying the best chip adds almost $60 to the cost of the kit and considering
> > the difference it isn't recommended.
> >
> > 73's
> >
> > Alan -- W6ARH
> >
> > *From:*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] *On Behalf Of
> > *seth_otherpower
> > *Sent:* Friday, April 29, 2011 8:24 AM
> > *To:* UHFSDR@yahoogroups.com
> > *Subject:* [UHFSDR] Re: Kits
> >
> > What spec is the Si570 that your sending with the full kit alan?
> >
> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, "The Silver
> > Fox" <alan.r.hill@> wrote:
> > >
> > > I am amazed at the amount of interest indicated by the amount of members but
> > > there doesn't seem to be much interest in purchases considering the volume
> > > of members. I still have a couple of full kits for sale. I'm not sure if

> > > there is enough interest for me to do another round of full kits.
> > >
> > > 73's
> > >
> > > Alan - W6ARH
> > >
> > >
> > >
> > > From: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> > [mailto:UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>] On Behalf Of
> > > brainerdd
> > > Sent: Thursday, April 28, 2011 1:10 AM
> > > To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> > > Subject: [UHFSDR] Kits
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> > >
> > > The Silver Fox (arhill at juno.com) has been selling complete kits including
> > > a grade A Si570 and the circuit board. I sell a mini kit that includes the 8
> > > hardest to get items. I also sell the PCB. I just uploaded a spreadsheet
> > > with the parts needed to turn the minikit into a full kit. This does not
> > > include the Si570. They can be ordered from the Silicon Labs web page. Order
> > > the LVPECL output option. The operating frequency is 1/2 that of the Si570,
> > > so for 70 cm you need the grade A. If you don't need 70 cm, you can get by
> > > with a grade B or even a grade C.
> > >
> > > Dave - WB6DHW
> > > <http://wb6dhw.com>
> > >
> >
> >
> >
>

133. RE: [UHFSDR] Re: Kits

Yahoo group: UHFSDR
Date: 2011-05-02 18:44:36 UTC
From: MIKE DURKIN
Topic: 94 Message: 133

Search or ask the "Silver Fox"... I think the full kit is 202$ USD for domestic still.

To: UHFSDR@yahoogroups.com
From: lists@...
Date: Mon, 2 May 2011 18:29:48 +0000
Subject: [UHFSDR] Re: Kits

Sorry if this has already been asked, but is there a full blown PCB and all on-board parts kit available? If so, what is the price? I can only find reference to the board and mini-kit on the website.

Thanks!

Jason - KE4NYV

RPC Electronics, LLC

www.rpc-electronics.com

--- In UHFSDR@yahoogroups.com, dave <dave@...> wrote:

>

> The only difference is in the "overall stability". That is the initial

> frequency accuracy(which you calibrate to the exact frequency, so doesn't

> matter) and the temperature variation. Unless you're going between Death Valley

> in Summer and the Arctic in winter, I don't think you would notice the difference.

>

> Dave - WB6DHW

> <http://wb6dhw.com>

>

> On 4/29/2011 9:53 AM, The Silver Fox wrote:

> >

> > The Si570 that is in the kits is 570AAA000514DG. It is a full range chip but

> > is not the best one available. The chip is second to the best and is spec'ed

> > well enough to support the kit while keeping the price more reasonable.

> > Buying the best chip adds almost $60 to the cost of the kit and considering

> > the difference it isn't recommended.

> >

> > 73's

> >

> > Alan -- W6ARH

> >

> > *From:*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] *On Behalf Of

> > *seth_otherpower

> > *Sent:* Friday, April 29, 2011 8:24 AM

> > *To:* UHFSDR@yahoogroups.com

> > *Subject:* [UHFSDR] Re: Kits

> >

> > What spec is the Si570 that your sending with the full kit alan?

> >

> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, "The Silver

> > Fox" <alan.r.hill@> wrote:

> > >

> > > I am amazed at the amount of interest indicated by the amount of members but

> > > there doesn't seem to be much interest in purchases considering the volume

> > > of members. I still have a couple of full kits for sale. I'm not sure if

> > > there is enough interest for me to do another round of full kits.

> > >

> > > 73's

> > >

> > > Alan - W6ARH

> > >

> > >

> > >

> > > From: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>

> > [mailto:UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>] On Behalf Of

> > > brainerdd

> > > Sent: Thursday, April 28, 2011 1:10 AM

> > > To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>

> > > Subject: [UHFSDR] Kits

> > >

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> > >

> > >

> > > The Silver Fox (arhill at juno.com) has been selling complete kits including

> > > a grade A Si570 and the circuit board. I sell a mini kit that includes the 8

> > > hardest to get items. I also sell the PCB. I just uploaded a spreadsheet

> > > with the parts needed to turn the minikit into a full kit. This does not

> > > include the Si570. They can be ordered from the Silicon Labs web page. Order

> > > the LVPECL output option. The operating frequency is 1/2 that of the Si570,

> > > so for 70 cm you need the grade A. If you don't need 70 cm, you can get by

> > > with a grade B or even a grade C.

> > >

> > > Dave - WB6DHW

> > > <http://wb6dhw.com>

> > >

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>

134. Re: [UHFSDR] Re: USB to Parallel Adapter?

Yahoo group: UHFSDR
Date: 2011-05-02 19:33:36 UTC
From: dave
Topic: 119 Message: 134

Yes, the parallel port control works. That is what I use. This USB to parallel port discussion is only for those that don't have a parallel port.

Dave - WB6DHW
<http://wb6dhw.com>

On 5/2/2011 7:05 AM, n1gp wrote:
>
> Dave, just to get this clearly in to my head, you are NOT saying that it can't
> be controlled by the parallel port? I ask because in your UHFSDR Assembly
> manual, page 10, it states that it can:
>
> PowerSDR-IQ includes provisions for controlling the Si570 and the T/R line of
> the UHFSDR. The parallel port connections are different than other PowewrSDR
> versions.
>
> UHFSDR db25(Parallel Port)
>
> H1-1 connect to 5V TP next to H1
> H1-2 19 Ground
> H1-3 1 I2C SDA for Si570
> H1-4 16 I2C SCL for Si570
> H2-3 25 Ground
> P2-1 8 /Rx Tx
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, dave
> <dave@...> wrote:
> >
> > My board is actually requires a I2C control. W6ARH gets the UHFSDR PCB's
> > from me.
> >
> > Dave - WB6DHW
> > <http://wb6dhw.com>
> >
> > On 5/1/2011 8:35 AM, n1gp wrote:
> > >
> > > Because if you buy the WB6HDW board it is designed to be controlled via the
> > > parallel port. Is the one sold by W6ARH different?
> > >
> > > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> <mailto:UHFSDR%40yahoogroups.com>, MIKE DURKIN
> > > <Patriot121@> wrote:
> > > >
> > > > Why do you feel you need an adapter - to a parallel port?
> > > >

> > > > To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> <mailto:UHFSDR%40yahoogroups.com>
> > > > From: n1gp@
> > > > Date: Sat, 30 Apr 2011 16:32:12 +0000
> > > > Subject: [UHFSDR] USB to Parallel Adapter?
>

135. Full Kits

Yahoo group: UHFSDR
Date: 2011-05-02 21:03:37 UTC
From: The Silver Fox
Topic: 135 Message: 135

I am currently out of stock on the full kits. My Xyl is not happy with me spending so much time with the kits so she will not let me front the money for future orders. That's the bad news. The not so bad is that if I can get ten orders prepaid, I think I can move forward on the orders for more. The caveat beyond paying up front is that the lead time on Si570's is indeterminate but the last time it took six weeks. Please let me know if you can tolerate these conditions and I will post the status as it proceeds. There is no need to pay until I get ten committed buyers.

73's

Alan -W6ARH

136. hsusb

Yahoo group: UHFSDR
Date: 2011-05-03 08:56:16 UTC
From: Colin
Topic: 136 Message: 136

Cant find any notes on the HSUSB
I have the WB6DHW HSUSB -R1
Do any of the headers need jumpers?
Still cant get windows to load the driver even tried Xp sp3

Need some Doc's of PDF for the board
No help from the WD6DHW site
Do we need firmware

M0DMJ

137. New file uploaded to UHFSDR

Yahoo group: UHFSDR
Date: 2011-05-04 08:52:41 UTC
From: UHFSDR@yahoogroups.com
Topic: 2 Message: 137

```
Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the UHFSDR
group.

File : /Farnel-BOM.xls
Uploaded by : brainerdd <dave@...>
Description : Farnel UK BOM of parts besides the Mini-Kit and Si570

You can access this file at the URL:
http://groups.yahoo.com/group/UHFSDR/files/Farnel-BOM.xls

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

brainerdd <dave@...>
```

138. New file uploaded to UHFSDR

Yahoo group: UHFSDR
Date: 2011-05-04 08:53:45 UTC
From: UHFSDR@yahoogroups.com
Topic: 2 Message: 138

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the UHFSDR
group.

File : /UHFSDR_BOM_Farnell.csv
Uploaded by : brainerdd <dave@...>
Description : File to cut and paste into Farnell to order parts not in Mini-Kit.

You can access this file at the URL:
http://groups.yahoo.com/group/UHFSDR/files/UHFSDR_BOM_Farnell.csv

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

brainerdd <dave@...>

139. Re: [UHFSDR] hsusb

Yahoo group: UHFSDR
Date: 2011-05-04 10:01:36 UTC
From: dave
Topic: 136 Message: 139

MoDMJ
Sorry I took so long. I hold a build session for our club on Tuesday afternoons(they are building HF transceivers!).
There is a jumper at H1 to select the power source for the chip. Shorting pins 1 and 2 will select USB bus power. Shorting pins 2 and 3 selects external 5V (from J2).
The CY7C68013A uses RAM for its program, so it is loaded each time. The .ini must point to the file that must be loaded. Also, the first time the board is powered up, the EEPRIOM is blank and the chip will enumerate at a blank Cypress chip. The EEPROM will then get programmed with a different set of Vender ID and Product ID, requiring a driver matching the new Vender ID and Product ID on the next power up.

Dave - WB6DHW
<http://wb6dhw.com>

On 5/3/2011 1:56 AM, Colin wrote:
>
> Cant find any notes on the HSUSB
> I have the WB6DHW HSUSB -R1
> Do any of the headers need jumpers?
> Still cant get windows to load the driver even tried Xp sp3
>
> Need some Doc's of PDF for the board
> No help from the WD6DHW site
> Do we need firmware
>
> M0DMJ
>
>
>
>
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 9.0.894 / Virus Database: 271.1.1/3611 - Release Date: 05/02/11 07:51:00
>

140. Re: hsusb

Yahoo group: UHFSDR
Date: 2011-05-05 15:32:37 UTC
From: Colin
Topic: 136 Message: 140

Ok getting somewhere now.
Cypress have no signed drives for windows 7
(Got around that its a pain have to boot using F8 unsigned driver opt each time I want it to work).

With the eeprom soldered in cant find the device.

With it out and a cyusb.ini file (from your site).
Cysuite 3_4_5 B192 finds the device with this string.
%VID_04B4&PID_8613.DeviceDesc%=CyUsb, USB\VID_04B4&PID_8613
this gets to the cypress chip ok
(cant see what file the ini is pointing to to load?)

so which file do i send into ram?
and which file do i send into the eeprom?
then maybe it will control the SI570 in UHFSDR

--- In UHFSDR@yahoogroups.com, dave <dave@...> wrote:
>
> MoDMJ
> Sorry I took so long. I hold a build session for our club on Tuesday
> afternoons(they are building HF transceivers!).
> There is a jumper at H1 to select the power source for the chip. Shorting
> pins 1 and 2 will select USB bus power. Shorting pins 2 and 3 selects external
> 5V (from J2).
> The CY7C68013A uses RAM for its program, so it is loaded each time. The .ini
> must point to the file that must be loaded. Also, the first time the board is
> powered up, the EEPRIOM is blank and the chip will enumerate at a blank Cypress
> chip. The EEPROM will then get programmed with a different set of Vender ID and
> Product ID, requiring a driver matching the new Vender ID and Product ID on the
> next power up.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 5/3/2011 1:56 AM, Colin wrote:
> >
> > Cant find any notes on the HSUSB
> > I have the WB6DHW HSUSB -R1
> > Do any of the headers need jumpers?
> > Still cant get windows to load the driver even tried Xp sp3
> >
> > Need some Doc's of PDF for the board
> > No help from the WD6DHW site
> > Do we need firmware
> >

> > M0DMJ
> >
> >
> >
> >
> >
> > No virus found in this incoming message.
> > Checked by AVG - www.avg.com
> > Version: 9.0.894 / Virus Database: 271.1.1/3611 - Release Date: 05/02/11 07:51:00
> >
>

141. Re: [UHFSDR] Re: hsusb

Yahoo group: UHFSDR
Date: 2011-05-05 20:52:38 UTC
From: dave
Topic: 136 Message: 141

Colin:
There is a driver on the PowerSDR-IQ download page for the HSUSB and a hookup diagram. I have not tried it myself, but have heard of others using it.
<http://code.google.com/p/powersdr-iq/downloads/list>

Dave - WB6DHW
<http://wb6dhw.com>

On 5/5/2011 8:32 AM, Colin wrote:
>
> Ok getting somewhere now.
> Cypress have no signed drives for windows 7
> (Got around that its a pain have to boot using F8 unsigned driver opt each
> time I want it to work).
>
> With the eeprom soldered in cant find the device.
>
> With it out and a cyusb.ini file (from your site).
> Cysuite 3_4_5 B192 finds the device with this string.
> %VID_04B4&PID_8613.DeviceDesc%=CyUsb, USB\VID_04B4&PID_8613
> this gets to the cypress chip ok
> (cant see what file the ini is pointing to to load?)
>
> so which file do i send into ram?
> and which file do i send into the eeprom?
> then maybe it will control the SI570 in UHFSDR
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, dave
> <dave@...> wrote:
> >
> > MoDMJ
> > Sorry I took so long. I hold a build session for our club on Tuesday
> > afternoons(they are building HF transceivers!).
> > There is a jumper at H1 to select the power source for the chip. Shorting
> > pins 1 and 2 will select USB bus power. Shorting pins 2 and 3 selects external
> > 5V (from J2).
> > The CY7C68013A uses RAM for its program, so it is loaded each time. The .ini
> > must point to the file that must be loaded. Also, the first time the board is
> > powered up, the EEPRIOM is blank and the chip will enumerate at a blank Cypress
> > chip. The EEPROM will then get programmed with a different set of Vender ID and
> > Product ID, requiring a driver matching the new Vender ID and Product ID on the
> > next power up.
> >
> > Dave - WB6DHW
> > <http://wb6dhw.com>

> >
> > On 5/3/2011 1:56 AM, Colin wrote:
> > >
> > > Cant find any notes on the HSUSB
> > > I have the WB6DHW HSUSB -R1
> > > Do any of the headers need jumpers?
> > > Still cant get windows to load the driver even tried Xp sp3
> > >
> > > Need some Doc's of PDF for the board
> > > No help from the WD6DHW site
> > > Do we need firmware
> > >
> > > M0DMJ
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> > >
> > > No virus found in this incoming message.
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> > > Version: 9.0.894 / Virus Database: 271.1.1/3611 - Release Date: 05/02/11
> 07:51:00
> > >
> >
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>
>

142. Re: [UHFSDR] Full Kits

Yahoo group: UHFSDR
Date: 2011-05-06 11:29:12 UTC
From: Ted Jahn
Topic: 135 Message: 142

Good Morning,

Please count me as a commitment to buy one of your kits. Please let me know when to send the payment. I assume you accept PayPal but if not what form would you like?

Reach me at my email address ted@...

Thanks and 73,
Ted

On Mon, May 2, 2011 at 5:03 PM, The Silver Fox <alan.r.hill@...>wrote:

>
>
> I am currently out of stock on the full kits. My Xyl is not happy with
> me spending so much time with the kits so she will not let me front the
> money for future orders. That’s the bad news. The not so bad is that if I
> can get ten orders prepaid, I think I can move forward on the orders for
> more. The caveat beyond paying up front is that the lead time on Si570’s is
> indeterminate but the last time it took six weeks. Please let me know if
> you can tolerate these conditions and I will post the status as it
> proceeds. There is no need to pay until I get ten committed buyers.
>
> 73’s
>
> Alan –W6ARH
>
>
>

143. Re: [UHFSDR] Full Kits

Yahoo group: UHFSDR
Date: 2011-05-06 14:24:10 UTC
From: Tony
Topic: 135 Message: 143

I totally understand the xyl situation. What will the cost be and how many kits orders do you need to make it worth your while?

73
Tony

144. RE: [UHFSDR] Full Kits

Yahoo group: UHFSDR
Date: 2011-05-06 14:51:28 UTC
From: The Silver Fox
Topic: 135 Message: 144

At the moment, the cost is holding steady. I seem to have two interested customers. Eight more to go. $202 US and $206 DX.

73's

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Tony
Sent: Friday, May 06, 2011 7:24 AM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Full Kits

I totally understand the xyl situation. What will the cost be and how many kits orders do you need to make it worth your while?

73

Tony

145. Re: [UHFSDR] Full Kits

Yahoo group: UHFSDR
Date: 2011-05-06 15:37:31 UTC
From: Josef Vukovic
Topic: 135 Message: 145

Hi,

I don't understand your XYl situation .... in cw I know all letters except
xy ... but despite this fact
put me on your list. I have one uhf sdr kit in part but a full kit would be
also good to have .....

regards
Josef Vukovic

2011/5/6 The Silver Fox <alan.r.hill@...>

>
>
> At the moment, the cost is holding steady. I seem to have two interested
> customers. Eight more to go. $202 US and $206 DX.
>
> 73’s
>
> Alan – W6ARH
>
>
>
> *From:* UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] *On Behalf
> Of *Tony
> *Sent:* Friday, May 06, 2011 7:24 AM
> *To:* UHFSDR@yahoogroups.com
> *Subject:* Re: [UHFSDR] Full Kits
>
>
>
>
>
> I totally understand the xyl situation. What will the cost be and how many
> kits orders do you need to make it worth your while?
>
>
>
> 73
>
> Tony
>
>
>

146. Re: [UHFSDR] Full Kits

Yahoo group: UHFSDR
Date: 2011-05-06 15:43:44 UTC
From: Jeff Thompson
Topic: 135 Message: 146

Quoting The Silver Fox <alan.r.hill@...>:

> I am currently out of stock on the full kits. My Xyl is not happy with me
> spending so much time with the kits so she will not let me front the money
> for future orders. That's the bad news. The not so bad is that if I can
> get ten orders prepaid, I think I can move forward on the orders for more.
> The caveat beyond paying up front is that the lead time on Si570's is
> indeterminate but the last time it took six weeks. Please let me know if
> you can tolerate these conditions and I will post the status as it proceeds.
> There is no need to pay until I get ten committed buyers.
>
> 73's
>
> Alan -W6ARH
>

Hi Alan,

Count me in for one kit. Just holler when you need the money. Copy
the xyl issue. Now, however, if you were kitting teddy bears... HI HI!!

73's

Jeff, W3HVU
jeff aTT 123jeff dott com

147. RE: [UHFSDR] Full Kits

Yahoo group: UHFSDR
Date: 2011-05-06 20:41:17 UTC
From: MIKE DURKIN
Topic: 135 Message: 147

Just to verrify - The Si570 sent in the full kit is a Si570AAA .... ?

To: UHFSDR@yahoogroups.com
From: alan.r.hill@...
Date: Fri, 6 May 2011 07:51:28 -0700
Subject: RE: [UHFSDR] Full Kits

At the moment, the cost is holding steady. I seem to have two interested customers. Eight more to go. $202 US and $206 DX.
73's
Alan – W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Tony
Sent: Friday, May 06, 2011 7:24 AM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Full Kits

I totally understand the xyl situation. What will the cost be and how many kits orders do you need to make it worth your while?

73

Tony

148. RE: [UHFSDR] Full Kits

Yahoo group: UHFSDR
Date: 2011-05-06 21:20:33 UTC
From: The Silver Fox
Topic: 135 Message: 148

Yes. The Si570 in the kits I ship is a 570AAA000514G.

73's

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
MIKE DURKIN
Sent: Friday, May 06, 2011 1:41 PM
To: uhfsdr@yahoogroups.com
Subject: RE: [UHFSDR] Full Kits

Just to verrify - The Si570 sent in the full kit is a Si570AAA .... ?

To: UHFSDR@yahoogroups.com
From: alan.r.hill@...
Date: Fri, 6 May 2011 07:51:28 -0700
Subject: RE: [UHFSDR] Full Kits

At the moment, the cost is holding steady. I seem to have two interested
customers. Eight more to go. $202 US and $206 DX.

73's

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
Tony
Sent: Friday, May 06, 2011 7:24 AM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Full Kits

I totally understand the xyl situation. What will the cost be and how many
kits orders do you need to make it worth your while?

73

Tony

149. Si570 startup

Yahoo group: UHFSDR
Date: 2011-05-07 02:45:46 UTC
From: MIKE DURKIN
Topic: 135 Message: 149

Is there a way to know what the start up frequency is by the numbers on the Si570?

To: UHFSDR@yahoogroups.com
From: alan.r.hill@...
Date: Fri, 6 May 2011 14:20:33 -0700
Subject: RE: [UHFSDR] Full Kits

Yes. The Si570 in the kits I ship is a 570AAA000514G.
73’sAlan – W6ARH From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of MIKE DURKIN
Sent: Friday, May 06, 2011 1:41 PM
To: uhfsdr@yahoogroups.com
Subject: RE: [UHFSDR] Full Kits Just to verrify - The Si570 sent in the full kit is a Si570AAA .... ?

To: UHFSDR@yahoogroups.com
From: alan.r.hill@...
Date: Fri, 6 May 2011 07:51:28 -0700
Subject: RE: [UHFSDR] Full Kits

At the moment, the cost is holding steady. I seem to have two interested customers. Eight more to go. $202 US and $206 DX. 73’sAlan – W6ARH From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Tony
Sent: Friday, May 06, 2011 7:24 AM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Full Kits I totally understand the xyl situation. What will the cost be and how many kits orders do you need to make it worth your while? 73 Tony

150. Re: [UHFSDR] Si570 startup

Yahoo group: UHFSDR
Date: 2011-05-07 02:59:53 UTC
From: dave
Topic: 135 Message: 150

Mike:
The Silicon Labs Website has a part number lookup page at
<https://www.silabs.com/products/clocksoscillators/Pages/LookupPartNumber.aspx?cm_sp=%3CWebParts%3E-_-%3CBuyXOsVCXOs%3E-_-%3CLookUpCrystal%3E>
The startup frequency for the 570AAA000514 is 19.982 MHz. I chose to provide
WWV at 10 MHz with a 9 KHz offset for PowerSDR-IQ.

Dave - WB6DHW
<http://wb6dhw.com>

On 5/6/2011 7:45 PM, MIKE DURKIN wrote:
>
> Is there a way to know what the start up frequency is by the numbers on the Si570?
>
> ---
> To: UHFSDR@yahoogroups.com
> From: alan.r.hill@...
> Date: Fri, 6 May 2011 14:20:33 -0700
> Subject: RE: [UHFSDR] Full Kits
>
> Yes. The Si570 in the kits I ship is a 570AAA000514G.
>
> 73?s
>
> Alan ? W6ARH
>
>

151. hsusb

Yahoo group: UHFSDR
Date: 2011-05-07 07:58:38 UTC
From: Colin
Topic: 136 Message: 151

gettin there...
downloaded the driver on the PowerSDR-IQ download page for the HSUSB.

(The hsusb.inf was set up for xp new Hsusb.inf txt below open up HSUSB.inf in notepad copy txt below and paste into inf and save)

So heres the work around for win 7 x64
1)Not not insatll Cysuiteusb into program files...
put it into root drive

2) Copy the HSUSB.inf and CuUSB.spt into the D:\cypress****\Driver\bin\wlh\x64

3) reboot pc..... as whe BIOS screen pops up keep pressing F8
need to boot pc with unsigned driver option

4) install driver ..use have disk mode and point to HSUSB.inf

5) Start Cypress USB Control Center.
if all wis working well the HSUSB should work

(HSUSB.inf win 7 x64)

```
; Installation INF for the HSUSB Driver for Windows 7 x64
; by M0DMJ
; Automatic re-enumeration and Cypress firmware download

[Version]
Signature="$WINDOWS NT$"
Class=USB
ClassGUID={36FC9E60-C465-11CF-8056-444553540000}
provider=%CYUSB_Provider%
CatalogFile=CYUSB.cat
DriverVer=19/01/2011,3.4.5.000
;-----------------------------------------------------------------;

[SourceDisksNames]
1=%CYUSB_INSTALL%,,,

[SourceDisksFiles]
CyUsb.sys = 1
CyUsb.spt = 1

[DestinationDirs]
CYUSB.Files.Ext = 10,System32\Drivers

[ControlFlags]
ExcludeFromSelect = *
```

```
[Manufacturer]
%CYUSB_Provider%=Device,NT,NTx86,NTamd64

;for all platforms
[Device]
;%VID_XXXX&PID_XXXX.DeviceDesc%=CyUsb, USB\VID_XXXX&PID_XXXX

;for windows 2000 non intel platforms
[Device.NT]
;%VID_XXXX&PID_XXXX.DeviceDesc%=CyUsb, USB\VID_XXXX&PID_XXXX

;for x86 platforms
[Device.NTx86]
;%VID_XXXX&PID_XXXX.DeviceDesc%=CyUsb, USB\VID_XXXX&PID_XXXX

;for x64 platforms
[Device.NTamd64]
%VID_04B4&PID_8613.DeviceDesc%=CyUsb, USB\VID_04B4&PID_8613
%USB\VID_04B4&PID_1002.DeviceDesc%=HSUSBDRV.Dev, USB\VID_04B4&PID_1002
%USB\VID_0456&PID_EE07.DeviceDesc%=HSUSBDRV.Dev, USB\VID_0456&PID_EE07

[PreCopySection]
HKR,,NoSetupUI,,1

[DestinationDirs]
CyUsb.Files.Ext = 10,System32\Drivers
HSUSBDRV.Files.Ext = 10,System32\Drivers
HSUSBDRV.Files.Inf = 10,INF
;-----Uncomment below to support script file processing-----;
CyUsb.Files.Spt = 10,System32\CyUsb
;-----------------------------------------------------------;

[CyUsb.NT]
CopyFiles=CyUsb.Files.Ext
;-----Uncomment below to support script file processing-----;
CopyFiles=CyUsb.Files.Spt
;-----------------------------------------------------------;
AddReg=CyUsb.AddReg

[CyUsb.NT.HW]
AddReg=CyUsb.AddReg.Guid

[CyUsb.NT.Services]
Addservice = CyUsb, 0x00000002, CyUsb.AddService

[CYUSB.AddService]
DisplayName = %CYUSB_Description%
ServiceType = 1 ; SERVICE_KERNEL_DRIVER
StartType = 3 ; SERVICE_DEMAND_START
ErrorControl = 1 ; SERVICE_ERROR_NORMAL
ServiceBinary = %10%\System32\Drivers\CYUSB.sys
AddReg = CYUSB.AddReg
LoadOrderGroup = Base
```

```
[CYUSB.AddReg]
; Deprecating - do not use in new apps to identify a CYUSB driver
HKR,,DevLoader,,*ntkern
HKR,,NTMPDriver,,CYUSB.sys
; You may optionally include a check for DriverBase in your application to check for a
CYUSB driver
HKR,,DriverBase,,CYUSB.sys
HKR,"Parameters","MaximumTransferSize",0x10001,4096
HKR,"Parameters","DebugLevel",0x10001,2
HKR,,FriendlyName,,%CYUSB_Description%

[CyUsb.Files.Ext]
CyUsb.sys

;-----Uncomment below to support script file processing-----;
[CyUsb.Files.Spt]
CyUsb.spt
;-----------------------------------------------------------;

[CyUsb.AddReg.Guid]
HKR,,DriverGUID,,%CyUsb.GUID%
;-----Uncomment below to support script file processing-----;
HKR,,DriverEXECSCRIPT,,%CyUsb.EXECSCRIPT%
;-----------------------------------------------------------;
;===========================================================================

[HSUSBDRV.Dev]
CopyFiles=HSUSBDRV.Files.Ext, HSUSBDRV.Files.Inf
AddReg=HSUSBDRV.AddReg

[HSUSBDRV.Dev.NT]
; copyfiles commented out for Win2K to avoid user intervention during install
; CopyFiles=HSUSBDRV.Files.Ext, HSUSBDRV.Files.Inf
AddReg=HSUSBDRV.AddReg

[HSUSBDRV.Dev.NT.Services]
Addservice = HSUSBDRV, 0x00000002, HSUSBDRV.AddService

[HSUSBDRV.AddService]
DisplayName = %HSUSBDRV.SvcDesc%
ServiceType = 1 ; SERVICE_KERNEL_DRIVER
StartType = 2 ; SERVICE_AUTO_START
ErrorControl = 1 ; SERVICE_ERROR_NORMAL
ServiceBinary = %10%\System32\Drivers\CyUSB.sys
LoadOrderGroup = Base

[HSUSBDRV.AddReg]
HKR,,DevLoader,,*ntkern
HKR,,NTMPDriver,,CyUSB.sys

[HSUSBDRV.Files.Ext]
CyUSB.sys
```

```
[HSUSBDRV.Files.Inf]
HSUSB2.Inf

[HSUSBDRV.AddReg.Guid]
HKR,,DriverGUID,,%CYUSB.GUID%

;-----------------------------------------------------------------;

;-----------------------------------------------------------------;

[Strings]
CYPRESS="Cypress"
MfgName="Cypress"
CYUSB_INSTALL="Cypress Generic USB Driver Installation Disk"
VID_04B4&PID_8613.DeviceDesc="Cypress Generic USB Device HSUSB"
CyUsb.SvcDesc="Cypress Generic USB Driver HSUSB"
USB\VID_04B4&PID_1002.DeviceDesc="SV1EIA HSUSB Device"
USB\VID_0456&PID_EE07.DeviceDesc="HSUSB Device"
HSUSBDRV.SvcDesc="M0DMJ HSUSB Interface"
;------------Replace GUID below with custom GUID-------------;
CyUsb.GUID="{AE18AA60-7F6A-11d4-97DD-00010229B959}"
;-----------------------------------------------------------------;
;-----Uncomment below to support script file processing-----;
CyUsb.EXECSCRIPT="\systemroot\system32\CyUsb\CyUsb.spt"
;-----------------------------------------------------------------;
```

152. RE: [UHFSDR] Si570 startup

Yahoo group: UHFSDR
Date: 2011-05-07 14:02:03 UTC
From: MIKE DURKIN
Topic: 135 Message: 152

Ok ... Just looked up the start up freq of the Si570 that i had acquired a month ago .... Now i can set it into the UHFSDR that arrived Thursday and see if it works ok ..... then i can sell the one that came with the full kit.

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Fri, 6 May 2011 19:59:53 -0700
Subject: Re: [UHFSDR] Si570 startup

Mike:

The Silicon Labs Website has a part number lookup page at

<https://www.silabs.com/products/clocksoscillators/Pages/LookupPartNumber.aspx?cm_sp=%3CWebParts%3E-_-%3CBuyXOsVCXOs%3E-_-%3CLookUpCrystal%3E>

The startup frequency for the 570AAA000514 is 19.982 MHz. I chose
to provide WWV at 10 MHz with a 9 KHz offset for PowerSDR-IQ.

Dave - WB6DHW

<http://wb6dhw.com>

On 5/6/2011 7:45 PM, MIKE DURKIN wrote:

Is there a way to know what the start up frequency is by
the numbers on the Si570?

To: UHFSDR@yahoogroups.com

From: alan.r.hill@...

Date: Fri, 6 May 2011 14:20:33 -0700

Subject: RE: [UHFSDR] Full Kits

Yes. The Si570 in the kits I ship is a 570AAA000514G.

73’s
Alan – W6ARH

153. RE: [UHFSDR] Si570 startup

Yahoo group: UHFSDR
Date: 2011-05-07 19:59:51 UTC
From: The Silver Fox
Topic: 135 Message: 153

Dave,

I am under the impression that it would not take much to modify the PCB to be USB interfaced vice parallel port. Is this a possibility in the future?

73's

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of dave
Sent: Friday, May 06, 2011 8:00 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Si570 startup

Mike:
The Silicon Labs Website has a part number lookup page at

<https://www.silabs.com/products/clocksoscillators/Pages/LookupPartNumber.aspx?cm_sp=%3CWebParts%3E-_-%3CBuyXOsVCXOs%3E-_-%3CLookUpCrystal%3E>
<https://www.silabs.com/products/clocksoscillators/Pages/LookupPartNumber.aspx?cm_sp=%3CWebParts%3E-_-%3CBuyXOsVCXOs%3E-_-%3CLookUpCrystal%3E>
The startup frequency for the 570AAA000514 is 19.982 MHz. I chose to provide WWV at 10 MHz with a 9 KHz offset for PowerSDR-IQ.

Dave - WB6DHW
<http://wb6dhw.com> <http://wb6dhw.com>

On 5/6/2011 7:45 PM, MIKE DURKIN wrote:

Is there a way to know what the start up frequency is by the numbers on the Si570?

To: UHFSDR@yahoogroups.com
From: alan.r.hill@...
Date: Fri, 6 May 2011 14:20:33 -0700
Subject: RE: [UHFSDR] Full Kits

Yes. The Si570 in the kits I ship is a 570AAA000514G.

73's

Alan - W6ARH

154. Re: [UHFSDR] Si570 startup

Yahoo group: UHFSDR
Date: 2011-05-07 20:25:49 UTC
From: dave
Topic: 135 Message: 154

It would require an additional chip. I am looking at changes to simplify the design as well as include USB for a future build.

Dave - WB6DHW
<http://wb6dhw.com>

On 5/7/2011 12:59 PM, The Silver Fox wrote:
>
> Dave,
>
> I am under the impression that it would not take much to modify the PCB to
> be USB interfaced vice parallel port. Is this a possibility in the future?
>
> 73's
>
> Alan -- W6ARH
>
> *From:*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] *On Behalf Of *dave
> *Sent:* Friday, May 06, 2011 8:00 PM
> *To:* UHFSDR@yahoogroups.com
> *Subject:* Re: [UHFSDR] Si570 startup
>
> Mike:
> The Silicon Labs Website has a part number lookup page at
> <https://www.silabs.com/products/clocksoscillators/Pages/LookupPartNumber.aspx?cm_sp=%3C
WebParts%3E-_-%3CBuyXOsVCXOs%3E-_-%3CLookUpCrystal%3E>
> The startup frequency for the 570AAA000514 is 19.982 MHz. I chose to
> provide WWV at 10 MHz with a 9 KHz offset for PowerSDR-IQ.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
>
> On 5/6/2011 7:45 PM, MIKE DURKIN wrote:
>
> Is there a way to know what the start up frequency is by the numbers on
> the Si570?
>
> ---
>
> To: UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> From: alan.r.hill@... <mailto:alan.r.hill@...>
> Date: Fri, 6 May 2011 14:20:33 -0700
> Subject: RE: [UHFSDR] Full Kits
>

> Yes. The Si570 in the kits I ship is a 570AAA000514G.
>
> 73's
>
> Alan -- W6ARH
>
>
>

155. Vcc for U6

Yahoo group: UHFSDR
Date: 2011-05-13 21:16:43 UTC
From: seth_otherpower
Topic: 155 Message: 155

How does Vcc get to U6? I was following the assembly manual .. and after installing the voltage regulators :

Voltage Regulators:
1. Install U1 (7805)
2. Install U12 (LP2992AIM5-3.3)
3. Install C1,C2,C40,C42 (10uF)
4. Install C41 (.01uF)
5. Install R1 (12ohm;2W)
6. Install FB1
7. Apply 7 to 15V to P1-1, Ground to P1-2.
8. Verify the voltage at P1-1 is also at the following locations:
U1-3 (7805) ☐ Note voltage will be less due to R1. Voltage must be > 7.0V
U11-1
U10-8
Q5 emitter pad
9. Verify 4.75 to 5.25VDC at the following locations:
U1-1(square pin ☐ 5V output of 7805)
U12-1
U12-3
U17-8
U18-8
U8-16
U9-8
U6-14 nothin at this point
U6-10 nill
U6-12
U6-5

156. Re: [UHFSDR] Vcc for U6

Yahoo group: UHFSDR
Date: 2011-05-13 21:26:16 UTC
From: dave
Topic: 155 Message: 156

U6 VCC comes from FB1. The other side of FB1 connects to the 5V output of U1(7805).

Dave - WB6DHW
<http://wb6dhw.com>

On 5/13/2011 2:16 PM, seth_otherpower wrote:
>
> How does Vcc get to U6? I was following the assembly manual .. and after
> installing the voltage regulators :
>
> Voltage Regulators:
> 1. Install U1 (7805)
> 2. Install U12 (LP2992AIM5-3.3)
> 3. Install C1,C2,C40,C42 (10uF)
> 4. Install C41 (.01uF)
> 5. Install R1 (12ohm;2W)
> 6. Install FB1
> 7. Apply 7 to 15V to P1-1, Ground to P1-2.
> 8. Verify the voltage at P1-1 is also at the following locations:
> U1-3 (7805) -- Note voltage will be less due to R1. Voltage must be > 7.0V
> U11-1
> U10-8
> Q5 emitter pad
> 9. Verify 4.75 to 5.25VDC at the following locations:
> U1-1(square pin -- 5V output of 7805)
> U12-1
> U12-3
> U17-8
> U18-8
> U8-16
> U9-8
> U6-14 nothin at this point
> U6-10 nill
> U6-12
> U6-5
>
>
>
>
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 9.0.901 / Virus Database: 271.1.1/3635 - Release Date: 05/12/11 23:34:00
>

157. RE: [UHFSDR] Vcc for U6

Yahoo group: UHFSDR
Date: 2011-05-13 21:50:04 UTC
From: MIKE DURKIN
Topic: 155 Message: 157

Ha!!!!! I left FB1 out because im planning on not using any connectors (unless I have to) --- frankly im not sure what FB1 looks like. (probably my bad)

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Fri, 13 May 2011 14:26:16 -0700
Subject: Re: [UHFSDR] Vcc for U6

U6 VCC comes from FB1. The other side of FB1 connects to the 5V output of U1(7805).

Dave - WB6DHW

<http://wb6dhw.com>

On 5/13/2011 2:16 PM, seth_otherpower wrote:

How does Vcc get to U6? I was following the assembly manual .. and after installing the voltage regulators :

Voltage Regulators:

1. Install U1 (7805)

2. Install U12 (LP2992AIM5-3.3)

3. Install C1,C2,C40,C42 (10uF)

4. Install C41 (.01uF)

5. Install R1 (12ohm;2W)

6. Install FB1

7. Apply 7 to 15V to P1-1, Ground to P1-2.

8. Verify the voltage at P1-1 is also at the following locations:

U1-3 (7805) – Note voltage will be less due to R1. Voltage must be > 7.0V

U11-1

U10-8

Q5 emitter pad

9. Verify 4.75 to 5.25VDC at the following locations:

U1-1(square pin – 5V output of 7805)

U12-1

U12-3

U17-8

U18-8

U8-16

U9-8

U6-14 nothin at this point

U6-10 nill

U6-12

U6-5

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 9.0.901 / Virus Database: 271.1.1/3635 - Release Date: 05/12/11 23:34:00

158. Re: [UHFSDR] Vcc for U6

Yahoo group: UHFSDR
Date: 2011-05-13 22:03:08 UTC
From: dave
Topic: 155 Message: 158

FB1 is a surface mount bead (1206 I think).

Dave - WB6DHW
<http://wb6dhw.com>

On 5/13/2011 2:50 PM, MIKE DURKIN wrote:
>
> Ha!!!!! I left FB1 out because im planning on not using any connectors (
> unless I have to) --- frankly im not sure what FB1 looks like. (probably my
> bad)
>
> ---
> To: UHFSDR@yahoogroups.com
> From: dave@...
> Date: Fri, 13 May 2011 14:26:16 -0700
> Subject: Re: [UHFSDR] Vcc for U6
>
> U6 VCC comes from FB1. The other side of FB1 connects to the 5V output of
> U1(7805).
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 5/13/2011 2:16 PM, seth_otherpower wrote:
>
> How does Vcc get to U6? I was following the assembly manual .. and after
> installing the voltage regulators :
>
> Voltage Regulators:
> 1. Install U1 (7805)
> 2. Install U12 (LP2992AIM5-3.3)
> 3. Install C1,C2,C40,C42 (10uF)
> 4. Install C41 (.01uF)
> 5. Install R1 (12ohm;2W)
> 6. Install FB1
> 7. Apply 7 to 15V to P1-1, Ground to P1-2.
> 8. Verify the voltage at P1-1 is also at the following locations:
> U1-3 (7805) -- Note voltage will be less due to R1. Voltage must be > 7.0V
> U11-1
> U10-8
> Q5 emitter pad
> 9. Verify 4.75 to 5.25VDC at the following locations:
> U1-1(square pin -- 5V output of 7805)
> U12-1
> U12-3

> U17-8
> U18-8
> U8-16
> U9-8
> U6-14 nothin at this point
> U6-10 nill
> U6-12
> U6-5
>
>
>
>
> No virus found in this incoming message.
> Checked by AVG -www.avg.com <http://www.avg.com>
> Version: 9.0.901 / Virus Database: 271.1.1/3635 - Release Date: 05/12/11 23:34:00
>
>
>
>
>
>
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 9.0.901 / Virus Database: 271.1.1/3635 - Release Date: 05/12/11 23:34:00
>

159. P2-1

Yahoo group: UHFSDR
Date: 2011-05-15 21:31:42 UTC
From: seth_otherpower
Topic: 159 Message: 159

So which is p2-1 ? is it the hole next to the P or to the number 2?

Mike KC7NOA

160. Re: [UHFSDR] P2-1

Yahoo group: UHFSDR
Date: 2011-05-15 22:25:58 UTC
From: dave
Topic: 159 Message: 160

Mike:
P2-1 is next to the 2. It is also the square pad. P2-2 is next to P(and is ground) and is the round pad.

Dave - WB6DHW
<http://wb6dhw.com>

On 5/15/2011 2:31 PM, seth_otherpower wrote:
>
> So which is p2-1 ? is it the hole next to the P or to the number 2?
>
> Mike KC7NOA
>
>
>

161. Re: [UHFSDR] P2-1

Yahoo group: UHFSDR
Date: 2011-05-15 22:56:36 UTC
From: Sid Boyce
Topic: 159 Message: 161

When soldered, the square pad doesn't look square again. Checking continuity between the pins and ground is the best test, ground which is pin 2 is nearest to the edge of the board. The same applies to other connectors once you know which is ground pin you can determine which is pin 1 in most cases.
73 ... Sid.

On 15/05/11 23:25, dave wrote:
> Mike:
> P2-1 is next to the 2. It is also the square pad. P2-2 is next to P(and
> is ground) and is the round pad.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 5/15/2011 2:31 PM, seth_otherpower wrote:
>
>> So which is p2-1 ? is it the hole next to the P or to the number 2?
>>
>> Mike KC7NOA
>>
>>
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

162. RE: [UHFSDR] P2-1

Yahoo group: UHFSDR
Date: 2011-05-15 23:22:58 UTC
From: MIKE DURKIN
Topic: 159 Message: 162

Are you saying that the highest numbered pin is ground? ()

> To: UHFSDR@yahoogroups.com
> From: sboyce@...
> Date: Sun, 15 May 2011 23:56:36 +0100
> Subject: Re: [UHFSDR] P2-1
>
> When soldered, the square pad doesn't look square again. Checking
> continuity between the pins and ground is the best test, ground which is
> pin 2 is nearest to the edge of the board. The same applies to other
> connectors once you know which is ground pin you can determine which is
> pin 1 in most cases.
> 73 ... Sid.
>
> On 15/05/11 23:25, dave wrote:
> > Mike:
> > P2-1 is next to the 2. It is also the square pad. P2-2 is next to P(and
> > is ground) and is the round pad.
> >
> > Dave - WB6DHW
> > <http://wb6dhw.com>
> >
> > On 5/15/2011 2:31 PM, seth_otherpower wrote:
> >
> >> So which is p2-1 ? is it the hole next to the P or to the number 2?
> >>
> >> Mike KC7NOA
> >>
> >>
> >
> >
>
>
> --
> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
> Senior Staff Specialist, Cricket Coach
> Microsoft Windows Free Zone - Linux used for all Computing Tasks
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>
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>

163. Re: [UHFSDR] P2-1

Yahoo group: UHFSDR
Date: 2011-05-15 23:47:40 UTC
From: Sid Boyce
Topic: 159 Message: 163

It often is, but the main point is that if you can establish which pin
is ground whilst checking against the schematic you'll know how the
connector is laid out.
Some minutes ago I needed to check a header on a Mobo v4.3.4 which has 2
pins, the schematic says pin 2 is ground. I checked both for continuity
to ground, so I established which is pin 1 and which is pin 2.
I've done such checks for larger connectors. If you know where pins
connect to, say on a connector with multiple grounds, you can meter
between the signal pins and their destinations on the schematic to be
sure where a pin is routed.
73 ... Sid.

On 16/05/11 00:22, MIKE DURKIN wrote:
> Are you saying that the highest numbered pin is ground? ()
>
> > To: UHFSDR@yahoogroups.com
> > From: sboyce@...
> > Date: Sun, 15 May 2011 23:56:36 +0100
> > Subject: Re: [UHFSDR] P2-1
> >
> > When soldered, the square pad doesn't look square again. Checking
> > continuity between the pins and ground is the best test, ground which is
> > pin 2 is nearest to the edge of the board. The same applies to other
> > connectors once you know which is ground pin you can determine which is
> > pin 1 in most cases.
> > 73 ... Sid.
> >
> > On 15/05/11 23:25, dave wrote:
> > > Mike:
> > > P2-1 is next to the 2. It is also the square pad. P2-2 is next to P(and
> > > is ground) and is the round pad.
> > >
> > > Dave - WB6DHW
> > > <http://wb6dhw.com>
> > >
> > > On 5/15/2011 2:31 PM, seth_otherpower wrote:
> > >
> > >> So which is p2-1 ? is it the hole next to the P or to the number 2?
> > >>
> > >> Mike KC7NOA
> > >>
> > >>
> > >
> > >
> >

> >
> > --
> > Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
> > Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
> > Senior Staff Specialist, Cricket Coach
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Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

164. RE: [UHFSDR] P2-1

Yahoo group: UHFSDR
Date: 2011-05-16 02:29:07 UTC
From: MIKE DURKIN
Topic: 159 Message: 164

WEll ....

Si570 with high OE) or to H2-3(Si570 with low OE .....
How to know ?

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Sun, 15 May 2011 15:25:58 -0700
Subject: Re: [UHFSDR] P2-1

Mike:

P2-1 is next to the 2. It is also the square pad. P2-2 is next to
P(and is ground) and is the round pad.

Dave - WB6DHW

<http://wb6dhw.com>

On 5/15/2011 2:31 PM, seth_otherpower wrote:

So which is p2-1 ? is it the hole next to the P or to the
number 2?

Mike KC7NOA

165. Re: [UHFSDR] P2-1

Yahoo group: UHFSDR
Date: 2011-05-16 04:30:29 UTC
From: dave
Topic: 159 Message: 165

Mike:
Depends on your Si570. You can find out with the part number at
<https://www.silabs.com/products/clocksoscillators/Pages/LookupPartNumber.aspx?cm_sp=%3CWebParts%3E-_-%3CBuyXOsVCXOs%3E-_-%3CLookUpCrystal%3E>
All of the Si570's supplied by any of the kit suppliers have included chips
with a high OE. The chip has an internal pull-up, so you can leave the H2
jumper off unless you need to control that line.

Dave - WB6DHW
<http://wb6dhw.com>

On 5/15/2011 7:29 PM, MIKE DURKIN wrote:
>
> WEll ....
>
> Si570 with high OE) or to H2-3(Si570 with low OE .....
>
>
> How to know ?
>
>
>
> ---
> To: UHFSDR@yahoogroups.com
> From: dave@...
> Date: Sun, 15 May 2011 15:25:58 -0700
> Subject: Re: [UHFSDR] P2-1
>
> Mike:
> P2-1 is next to the 2. It is also the square pad. P2-2 is next to P(and is
> ground) and is the round pad.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 5/15/2011 2:31 PM, seth_otherpower wrote:
>
> So which is p2-1 ? is it the hole next to the P or to the number 2?
>
> Mike KC7NOA
>
>
>
>
>

>

166. Oscillation at U10 Pin1 and Pin7

Yahoo group: UHFSDR
Date: 2011-05-17 13:26:05 UTC
From: dl5cn
Topic: 166 Message: 166

Hallo,
when I started to test the PCB I found an oscillation at the
audio amps, U10 Pin 1 and Pin 7.
The DC-Levels are as decribed in Dave's manual.
The frequency was around 600 KHz, nearly 3V peak to peak.
There was nothing visible at Q1 and Q2.
When disconnecting the line-in cable, oscillation disappeared.
First, I added two capacities 33p, one parallel to R21, the other
parallel to R22. No further oscillation.
So, it seems, the Opamps are oscillating with a given load.
Probabaly resistors R68 and R69 have to be increased instead.
Did anybody watch similar things .
73's
Andreas
DL5CN

167. U13

Yahoo group: UHFSDR
Date: 2011-05-17 18:51:29 UTC
From: seth_otherpower
Topic: 167 Message: 167

Seems like my u13 is dead ... I wanna pull the output tp1/tp2 low whatsoever ...
I'm guessing im gonna need a replacement.

168. Re: [UHFSDR] U13

Yahoo group: UHFSDR
Date: 2011-05-17 19:26:48 UTC
From: dave
Topic: 167 Message: 168

Are you supplying a voltage to H1-1 equal to your driving logic voltage(3.3V or 5V)and a ground to H1-2?

Dave - WB6DHW
<http://wb6dhw.com>

On 5/17/2011 11:51 AM, seth_otherpower wrote:
>
> Seems like my u13 is dead ... I wanna pull the output tp1/tp2 low whatsoever ...
> I'm guessing im gonna need a replacement.
>
>
>

169. RE: [UHFSDR] U13

Yahoo group: UHFSDR
Date: 2011-05-17 19:55:44 UTC
From: MIKE DURKIN
Topic: 167 Message: 169

H1-1is tied to TP1 - 5V - Vdd2 has 3.3v ....
GND1 is grounded and shows .1ohm to mounting rings. H1-3 & H1-4 have 3.22V on them. (TP1 & TP2 showing 3.3v)

When either H1-3 or H1-4 Is grounded nothing happens with TP1 & TP2 ..

Im following along with steps 30 through 43 in the Assembly manual.

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Tue, 17 May 2011 12:26:48 -0700
Subject: Re: [UHFSDR] U13

Are you supplying a voltage to H1-1 equal to your driving logic
voltage(3.3V or 5V)and a ground to H1-2?

Dave - WB6DHW

<http://wb6dhw.com>

On 5/17/2011 11:51 AM, seth_otherpower wrote:

Seems like my u13 is dead ... I wanna pull the output
tp1/tp2 low whatsoever ...

I'm guessing im gonna need a replacement.

170. Si570

Yahoo group: UHFSDR
Date: 2011-05-17 20:54:51 UTC
From: seth_otherpower
Topic: 170 Message: 170

Ok it looks like the Si570 that im going to use with the UHFSDR is working ... its Osc at 10Mhz on the + and - 180deg outputs so now i think i can go ahead and sell the Si570AAA that came with the full kit.

I assume that the Si570 was 60$$ so im asking for 65$ shipped in the usa ....

171. RE: [UHFSDR] U13

Yahoo group: UHFSDR
Date: 2011-05-18 23:15:03 UTC
From: MIKE DURKIN
Topic: 167 Message: 171

Hey I was looking at the schematic a little bit ... dosent H1-4 need to be low before H1-3 will have activity?(go low)

Ok ...never mind .... okay, Its simply not doing any thing....

To: UHFSDR@yahoogroups.com
From: dave@wb6dhw.com
Date: Tue, 17 May 2011 12:26:48 -0700
Subject: Re: [UHFSDR] U13

Are you supplying a voltage to H1-1 equal to your driving logic voltage(3.3V or 5V)and a ground to H1-2?

Dave - WB6DHW

<http://wb6dhw.com>

On 5/17/2011 11:51 AM, seth_otherpower wrote:

Seems like my u13 is dead ... I wanna pull the output tp1/tp2 low whatsoever ...

I'm guessing im gonna need a replacement.

172. RE: [UHFSDR] U13

Yahoo group: UHFSDR
Date: 2011-05-18 23:25:24 UTC
From: MIKE DURKIN
Topic: 167 Message: 172

Holy smoke is the cheapest ebay is 14$$!!

To: uhfsdr@yahoogroups.com
From: Patriot121@...
Date: Wed, 18 May 2011 16:15:03 -0700
Subject: RE: [UHFSDR] U13

Hey I was looking at the schematic a little bit ... dosent H1-4 need to be low before H1-3 will have activity?(go low)

Ok ...never mind .... okay, Its simply not doing any thing....

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Tue, 17 May 2011 12:26:48 -0700
Subject: Re: [UHFSDR] U13

Are you supplying a voltage to H1-1 equal to your driving logic voltage(3.3V or 5V)and a ground to H1-2?

Dave - WB6DHW

<http://wb6dhw.com>

On 5/17/2011 11:51 AM, seth_otherpower wrote:

Seems like my u13 is dead ... I wanna pull the output tp1/tp2 low whatsoever ...

I'm guessing im gonna need a replacement.

173. Re: [UHFSDR] U13

Yahoo group: UHFSDR
Date: 2011-05-19 00:14:57 UTC
From: dave
Topic: 167 Message: 173

Mike:
Analog offers free samples of the ADUM1251ARZ. Newark sells them in
quantity 1 at $4.93.

Dave - WB6DHW
<http://wb6dhw.com>

On 5/18/2011 4:25 PM, MIKE DURKIN wrote:
>
> Holy smoke is the cheapest ebay is 14$$!!
>
> ---
> To: uhfsdr@yahoogroups.com
> From: Patriot121@...
> Date: Wed, 18 May 2011 16:15:03 -0700
> Subject: RE: [UHFSDR] U13
>
> Hey I was looking at the schematic a little bit ... dosent H1-4 need to be low
> before H1-3 will have activity?(go low)
>
> Ok ...never mind .... okay, Its simply not doing any thing....
>
> ---
> To: UHFSDR@yahoogroups.com
> From: dave@...
> Date: Tue, 17 May 2011 12:26:48 -0700
> Subject: Re: [UHFSDR] U13
>
> Are you supplying a voltage to H1-1 equal to your driving logic voltage(3.3V
> or 5V)and a ground to H1-2?
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 5/17/2011 11:51 AM, seth_otherpower wrote:
>
> Seems like my u13 is dead ... I wanna pull the output tp1/tp2 low
> whatsoever ...
> I'm guessing im gonna need a replacement.
>
>
>
>
>
>

>

174. RE: [UHFSDR] U13

Yahoo group: UHFSDR
Date: 2011-05-19 00:40:50 UTC
From: MIKE DURKIN
Topic: 167 Message: 174

I like using paypal - so my wife dosent know how much money I spend from time to time ....
know any place that takes paypal?

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Wed, 18 May 2011 17:14:57 -0700
Subject: Re: [UHFSDR] U13

Mike:

Analog offers free samples of the ADUM1251ARZ. Newark sells them
in quantity 1 at $4.93.

Dave - WB6DHW

<http://wb6dhw.com>

On 5/18/2011 4:25 PM, MIKE DURKIN wrote:

Holy smoke is the cheapest ebay is 14$$!!

To: uhfsdr@yahoogroups.com

From: Patriot121@...

Date: Wed, 18 May 2011 16:15:03 -0700

Subject: RE: [UHFSDR] U13

Hey I was looking at the
schematic a little bit ... dosent H1-4 need to be low
before H1-3 will have activity?(go low)

Ok ...never mind .... okay, Its simply not doing any
thing....

To: UHFSDR@yahoogroups.com

From: dave@...

Date: Tue, 17 May 2011 12:26:48 -0700

Subject: Re: [UHFSDR] U13

Are you supplying a
voltage to H1-1 equal to your driving logic
voltage(3.3V or 5V)and a ground to H1-2?

Dave - WB6DHW

<http://wb6dhw.com>

On 5/17/2011 11:51 AM, seth_otherpower wrote:

Seems like my u13 is dead ... I wanna
pull the output tp1/tp2 low whatsoever ...

I'm guessing im gonna need a replacement.

175. Flip flops

Yahoo group: UHFSDR
Date: 2011-05-25 02:21:39 UTC
From: seth_otherpower
Topic: 175 Message: 175

any one have a better pic of U18 & U17 ??

My flipflops dont seem to be functioning .... there is 10mhz to both inputs of each but no detectable 5Mhz ....

176. Re: Flip flops

Yahoo group: UHFSDR
Date: 2011-05-25 04:04:54 UTC
From: seth_otherpower
Topic: 175 Message: 176

More checking .. A Ok from the Si570 .... Dc is 1.17V and since i only have a single trace scope - both TP8 and TP9 show .4V P-P .... Looking ok.

So i checked /Q and Q (pins 6 & 7) both IC's show /Q at 4.1VDC and Q at 3.1VDC .... ideas on what to check ?

Vcc for U18 & U17 are good 4.98VDC ....

Mike KC7NOA

--- In UHFSDR@yahoogroups.com, "seth_otherpower" <Patriot121@...> wrote:
>
> any one have a better pic of U18 & U17 ??
>
> My flipflops dont seem to be functioning .... there is 10mhz to both inputs of each but no detectable 5Mhz ....
>

177. Re: Flip flops

Yahoo group: UHFSDR
Date: 2011-05-25 04:21:18 UTC
From: seth_otherpower
Topic: 175 Message: 177

Check that - D (pin 1) of U17 is not 4.1V ... near 0 but should be 4.1V in this condition .... should be tied to /Q of U18 and its not ... iv got (probably) a bad joint ... go figure ... cant find my jewellers loop ....

--- In UHFSDR@yahoogroups.com, "seth_otherpower" <Patriot121@...> wrote:
>
> More checking .. A Ok from the Si570 .... Dc is 1.17V and since i only have a single trace scope - both TP8 and TP9 show .4V P-P .... Looking ok.
>
> So i checked /Q and Q (pins 6 & 7) both IC's show /Q at 4.1VDC and Q at 3.1VDC .... ideas on what to check ?
>
> Vcc for U18 & U17 are good 4.98VDC ....
>
> Mike KC7NOA
>
> --- In UHFSDR@yahoogroups.com, "seth_otherpower" <Patriot121@> wrote:
> >
> > any one have a better pic of U18 & U17 ??
> >
> > My flipflops dont seem to be functioning .... there is 10mhz to both inputs of each but no detectable 5Mhz ....
> >
>

178. Re: [UHFSDR] Flip flops

Yahoo group: UHFSDR
Date: 2011-05-25 04:37:18 UTC
From: dave
Topic: 175 Message: 178

Seth:
I have a high res picture of the UHFSDR-r1 (the only changes for the r1a are in the lower right hand part) at
<http://wb6dhw.com/UHF-SDR/production/UHFSDR-r1_HiRES.JPG>
Check that you have continuity between the following:
U17-1 to U18-6
U17-2 to U18-7
U18-1 to U17-7
U18-2 to U17-6

Also check the ground connection and the VCC.

Dave - WB6DHW
<http://wb6dhw.com>

On 5/24/2011 7:21 PM, seth_otherpower wrote:
>
> any one have a better pic of U18 & U17 ??
>
> My flipflops dont seem to be functioning .... there is 10mhz to both inputs of
> each but no detectable 5Mhz ....
>
>

179. Re: Flip flops

Yahoo group: UHFSDR
Date: 2011-05-25 22:28:02 UTC
From: seth_otherpower
Topic: 175 Message: 179

you still cant see the indentation that marks pin 1.

--- In UHFSDR@yahoogroups.com, dave <dave@...> wrote:
>
> Seth:
> I have a high res picture of the UHFSDR-r1 (the only changes for the r1a are
> in the lower right hand part) at
> <http://wb6dhw.com/UHF-SDR/production/UHFSDR-r1_HiRES.JPG>
> Check that you have continuity between the following:
> U17-1 to U18-6
> U17-2 to U18-7
> U18-1 to U17-7
> U18-2 to U17-6
>
> Also check the ground connection and the VCC.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 5/24/2011 7:21 PM, seth_otherpower wrote:
> >
> > any one have a better pic of U18 & U17 ??
> >
> > My flipflops dont seem to be functioning .... there is 10mhz to both inputs of
> > each but no detectable 5Mhz ....
> >
> >
>

180. Re: Flip flops

Yahoo group: UHFSDR
Date: 2011-05-25 22:36:08 UTC
From: seth_otherpower
Topic: 175 Message: 180

ok ... working now .... U17 & U18 sit really close to their pads ends .... too bad they weren't extended just a smidge ... it would have helped me.

On to the mixers ...

--- In UHFSDR@yahoogroups.com, "seth_otherpower" <Patriot121@...> wrote:
>
> Check that - D (pin 1) of U17 is not 4.1V ... near 0 but should be 4.1V in this condition .... should be tied to /Q of U18 and its not ... iv got (probably) a bad joint ... go figure ... cant find my jewellers loop ....
>
> --- In UHFSDR@yahoogroups.com, "seth_otherpower" <Patriot121@> wrote:
> >
> > More checking .. A Ok from the Si570 .... Dc is 1.17V and since i only have a single trace scope - both TP8 and TP9 show .4V P-P .... Looking ok.
> >
> > So i checked /Q and Q (pins 6 & 7) both IC's show /Q at 4.1VDC and Q at 3.1VDC .... ideas on what to check ?
> >
> > Vcc for U18 & U17 are good 4.98VDC ....
> >
> > Mike KC7NOA
> >
> > --- In UHFSDR@yahoogroups.com, "seth_otherpower" <Patriot121@> wrote:
> > >
> > > any one have a better pic of U18 & U17 ??
> > >
> > > My flipflops dont seem to be functioning .... there is 10mhz to both inputs of each but no detectable 5Mhz ....
> > >
> >
>

181. Re: [UHFSDR] Re: Flip flops

Yahoo group: UHFSDR
Date: 2011-05-26 05:02:56 UTC
From: Douglas H Reed
Topic: 175 Message: 181

Many SMT chips have a bevel in the end of the chip corresponding to pin 1, not a dimple or dot. Did you check the manufacturer's data sheet to see what they use?

When in doubt, I usually start checking the power and ground traces to see if they meet where I think they should. If there is more than one ground connection, so much the better.

Good luck!

73, Doug Reed, N0NAS.

On Wed, May 25, 2011 at 5:28 PM, seth_otherpower <Patriot121@...> wrote:
> you still cant see the indentation that marks pin 1.
>
> --- In UHFSDR@yahoogroups.com, dave <dave@...> wrote:
>>
>> Seth:
>> I have a high res picture of the UHFSDR-r1 (the only changes for the r1a are
>> in the lower right hand part) at
>> <http://wb6dhw.com/UHF-SDR/production/UHFSDR-r1_HiRES.JPG>
>> Check that you have continuity between the following:
>> U17-1 to U18-6
>> U17-2 to U18-7
>> U18-1 to U17-7
>> U18-2 to U17-6
>>
>> Also check the ground connection and the VCC.
>>
>> Dave - WB6DHW
>> <http://wb6dhw.com>
>>
>> On 5/24/2011 7:21 PM, seth_otherpower wrote:
>> >
>> > any one have a better pic of U18 & U17 ??
>> >
>> > My flipflops dont seem to be functioning .... there is 10mhz to both inputs of
>> > each but no detectable 5Mhz ....
>> >
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182. RE: [MOBOKITS] UHFSDR-MOBO-WIDGET...

Yahoo group: UHFSDR
Date: 2011-05-26 17:30:07 UTC
From: The Silver Fox
Topic: 182 Message: 182

The mobo kits are still available and I have no plans to stop producing them as long as orders persist. There are more than 200 boards out there and improvements would still be of benefit.

The UHFSDR full kits are in a lull and currently only two kits remain. Once I can order si570's I will make them available again. The demand for them has not kept the cash flow rolling enough to sustain constant supply. I have parts for the full UHFSDR kits without the si570 for anyone who is interested.

73's

Alan - W6ARH

From: mobokits@... [mailto:mobokits@...] On Behalf
Of W9AMR@...
Sent: Wednesday, May 18, 2011 7:13 PM
To: uhf-sdrkits@...; sdr-widget@...;
MOBOKITS@...
Subject: [MOBOKITS] UHFSDR-MOBO-WIDGET...

Here is the working setup. Tedious but doable. Works fine! No issues that I could not over come with a few evenings of tinkering. 5 watts 10-160 easily. Next is the VHF side of things!

Larry W9AMR

183. assembly

Yahoo group: UHFSDR
Date: 2011-05-27 04:47:38 UTC
From: seth_otherpower
Topic: 183 Message: 183

Okay just wanna make sure where do this ... I can't tell which way D1 gets installed..

184. Re: [UHFSDR] assembly

Yahoo group: UHFSDR
Date: 2011-05-27 06:06:13 UTC
From: dave
Topic: 183 Message: 184

The bar goes torwards the bottom edge of the board(connects to R4).

Dave - WB6DHW
<http://wb6dhw.com>

On 5/26/2011 9:47 PM, seth_otherpower wrote:
>
> Okay just wanna make sure where do this ... I can't tell which way D1 gets
> installed..
>
>

185. RE: [UHFSDR] assembly

Yahoo group: UHFSDR
Date: 2011-05-27 16:49:25 UTC
From: MIKE DURKIN
Topic: 183 Message: 185

Well having a hard time fiting this diode on ... it doesn't look all that important, I have some glass 1N4148 that I'm sure I would have better luck with. D1 Is simply a blocking diode right?

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Thu, 26 May 2011 23:06:13 -0700
Subject: Re: [UHFSDR] assembly

The bar goes torwards the bottom edge of the board(connects to R4).

Dave - WB6DHW

<http://wb6dhw.com>

On 5/26/2011 9:47 PM, seth_otherpower wrote:

Okay just wanna make sure where do this ... I can't tell which way D1 gets installed..

186. Re: [UHFSDR] assembly

Yahoo group: UHFSDR
Date: 2011-05-27 17:04:46 UTC
From: dave
Topic: 183 Message: 186

You are correct. A 1N4148 would work.
Dave - WB6DHW
<http://wb6dhw.com>

On 5/27/2011 9:49 AM, MIKE DURKIN wrote:
>
> Well having a hard time fiting this diode on ... it doesn't look all that
> important, I have some glass 1N4148 that I'm sure I would have better luck
> with. D1 Is simply a blocking diode right?
>
> ---
> To: UHFSDR@yahoogroups.com
> From: dave@...
> Date: Thu, 26 May 2011 23:06:13 -0700
> Subject: Re: [UHFSDR] assembly
>
> The bar goes torwards the bottom edge of the board(connects to R4).
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 5/26/2011 9:47 PM, seth_otherpower wrote:
>
> Okay just wanna make sure where do this ... I can't tell which way D1 gets
> installed..
>
>
>
>

187. opss count

Yahoo group: UHFSDR
Date: 2011-05-27 21:25:01 UTC
From: seth_otherpower
Topic: 187 Message: 187

I seem to be short 1 resistor .... 10K count on Tape3 is 11 but assembly count is 12. Step 19 - R66, step 88 - R5,6,11,12 , step 118 - R9,10,13,14 , step 127 - R4, step 187 - R58, step 191 - R63 .... Was 1 of these not needed?

Mike KC7NOA
I had hoped i would be done today ...

188. Re: [UHFSDR] opss count

Yahoo group: UHFSDR
Date: 2011-05-28 01:33:50 UTC
From: dave
Topic: 187 Message: 188

Mike:
They are all needed. R66, R4, R58, and R63 are very non-critical in value.

Dave - WB6DHW
<http://wb6dhw.com>

On 5/27/2011 2:25 PM, seth_otherpower wrote:
>
> I seem to be short 1 resistor .... 10K count on Tape3 is 11 but assembly count
> is 12. Step 19 - R66, step 88 - R5,6,11,12 , step 118 - R9,10,13,14 , step 127
> - R4, step 187 - R58, step 191 - R63 .... Was 1 of these not needed?
>
> Mike KC7NOA
> I had hoped i would be done today ...
>
>

189. Re: opss count

Yahoo group: UHFSDR
Date: 2011-05-28 02:08:57 UTC
From: seth_otherpower
Topic: 187 Message: 189

Then R4 is gona get robbed ... its the closest to the edge and with the swap out of D1, will be the easiest to do. Im sure I have some 1/8th Watt resistors around that value ...

--- In UHFSDR@yahoogroups.com, dave <dave@...> wrote:
>
> Mike:
> They are all needed. R66, R4, R58, and R63 are very non-critical in value.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 5/27/2011 2:25 PM, seth_otherpower wrote:
> >
> > I seem to be short 1 resistor .... 10K count on Tape3 is 11 but assembly count
> > is 12. Step 19 - R66, step 88 - R5,6,11,12 , step 118 - R9,10,13,14 , step 127
> > - R4, step 187 - R58, step 191 - R63 .... Was 1 of these not needed?
> >
> > Mike KC7NOA
> > I had hoped i would be done today ...
> >
> >
>

190. pictures

Yahoo group: UHFSDR
Date: 2011-05-28 05:34:31 UTC
From: seth_otherpower
Topic: 190 Message: 190

I've posted some pictures in the pictures section if anyone cares 2 look at 'em
.

191. U4

Yahoo group: UHFSDR
Date: 2011-05-28 05:52:59 UTC
From: seth_otherpower
Topic: 191 Message: 191

ok .. wow ... witch way does U4 go in?

192. Re: [UHFSDR] U4

Yahoo group: UHFSDR
Date: 2011-05-28 06:11:01 UTC
From: dave
Topic: 191 Message: 192

Pin 1 in to the lower right. There is a silkscreen dot near pin 1.

Dave - WB^DHW
<http://wb6dhw.com>

On 5/27/2011 10:52 PM, seth_otherpower wrote:
>
> ok .. wow ... witch way does U4 go in?
>
>

193. RE: [UHFSDR] U4

Yahoo group: UHFSDR
Date: 2011-05-28 14:14:51 UTC
From: MIKE DURKIN
Topic: 191 Message: 193

Does that mean that the larger pin on the chip is pin4 .... ill look it up before you answer. This message is for any one that searches for the same season I am, and find a hit in the messages.

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Fri, 27 May 2011 23:11:01 -0700
Subject: Re: [UHFSDR] U4

Pin 1 in to the lower right. There is a silkscreen dot near pin
1.

Dave - WB^DHW

<http://wb6dhw.com>

On 5/27/2011 10:52 PM, seth_otherpower wrote:

ok .. wow ... witch way does U4 go in?

194. RE: [UHFSDR] U4

Yahoo group: UHFSDR
Date: 2011-05-28 15:23:41 UTC
From: MIKE DURKIN
Topic: 191 Message: 194

The big pin is #2. Alignment is going away from the edge of the board ... pin #1 denoted by silk screen dot next to H5. Pin #2 is next to the 4 of the silkscreen of U4.

Hope this helps someone.

To: uhfsdr@yahoogroups.com
From: Patriot121@...
Date: Sat, 28 May 2011 07:14:51 -0700
Subject: RE: [UHFSDR] U4

Does that mean that the larger pin on the chip is pin4 .... ill look it up before you answer. This message is for any one that searches for the same season I am, and find a hit in the messages.

To: UHFSDR@yahoogroups.com
From: dave@wb6dhw.com
Date: Fri, 27 May 2011 23:11:01 -0700
Subject: Re: [UHFSDR] U4

Pin 1 in to the lower right. There is a silkscreen dot near pin
1.

Dave - WB^DHW

<http://wb6dhw.com>

On 5/27/2011 10:52 PM, seth_otherpower wrote:

ok .. wow ... witch way does U4 go in?

195. Re: [UHFSDR] RE: [MOBOKITS] UHFSDR-MOBO-WIDGET...

Yahoo group: UHFSDR
Date: 2011-05-28 15:26:54 UTC
From: Mats Helgöstam (Home)
Topic: 182 Message: 195

I might be interested in a full kit without the si570 depending on the price. If it saves you a lot of time, and me some money, I don't need the capacitors and resistors either. Can I assume the PCB is included?

73's de Mats sm0rjv

----- Original Message -----
From: The Silver Fox
To: mobokits@...
Cc: UHFSDR@yahoogroups.com
Sent: Thursday, May 26, 2011 7:30 PM
Subject: [UHFSDR] RE: [MOBOKITS] UHFSDR-MOBO-WIDGET...

The mobo kits are still available and I have no plans to stop producing them as long as orders persist. There are more than 200 boards out there and improvements would still be of benefit.

The UHFSDR full kits are in a lull and currently only two kits remain. Once I can order si570's I will make them available again. The demand for them has not kept the cash flow rolling enough to sustain constant supply. I have parts for the full UHFSDR kits without the si570 for anyone who is interested.

73's

Alan - W6ARH

From: mobokits@... [mailto:mobokits@googlegroups.com] On Behalf Of W9AMR@...
Sent: Wednesday, May 18, 2011 7:13 PM
To: uhf-sdrkits@...; sdr-widget@...; MOBOKITS@...
Subject: [MOBOKITS] UHFSDR-MOBO-WIDGET...

Here is the working setup. Tedious but doable. Works fine! No issues that I could not over come with a few evenings of tinkering. 5 watts 10-160 easily. Next is the VHF side of things!

Larry W9AMR

< /div>

196. wha?

Yahoo group: UHFSDR
Date: 2011-05-30 03:32:29 UTC
From: seth_otherpower
Topic: 196 Message: 196

```
Step 243. Install L1 (560 nH(only >14 MHz) or 3.3uH)

Im tired and should know what this means ... but ..
```

197. Re: [UHFSDR] wha?

Yahoo group: UHFSDR
Date: 2011-05-30 05:40:44 UTC
From: dave
Topic: 196 Message: 197

If you want to go below 14 MHz install the 3.3 uH, otherwise the 560 nH.

Dave - WB6DHW
<http://wb6dhw.com>

On 5/29/2011 8:32 PM, seth_otherpower wrote:
>
> Step 243. Install L1 (560 nH(only >14 MHz) or 3.3uH)
>
> Im tired and should know what this means ... but ..
>
>

198. testing

Yahoo group: UHFSDR
Date: 2011-05-31 04:18:53 UTC
From: seth_otherpower
Topic: 198 Message: 198

If i wanted to listen to 10Mhz WWV on the speaker output .... the Si570 would be tuned to 9.998Mhz * 2?

Mabey I don't have Kees controller set right because im not hearing anything but static.

199. Re: [UHFSDR] testing

Yahoo group: UHFSDR
Date: 2011-05-31 04:37:56 UTC
From: dave
Topic: 198 Message: 199

Depends on the software. If no offset, you tune to 10 MHz X 2. If using PowerSDR-IQ, which defaults to a 9 KHz offset, you would tune to 9.991 X 2 = 19.982. If you bought the kit, that is the default freq. of the Si570. With a default freq of 19.982 asnd ZPowerSDR-IQ you should be able to receive WWVat 10 MHz(assuming you have propagation to either Boulder, Colorado or to Hawaii for WWVH).

Dave - WB6DHW
<http://wb6dhw.com>

On 5/30/2011 9:18 PM, seth_otherpower wrote:
>
> If i wanted to listen to 10Mhz WWV on the speaker output .... the Si570 would
> be tuned to 9.998Mhz * 2?
>
> Mabey I don't have Kees controller set right because im not hearing anything
> but static.
>
>
>

200. RE: [UHFSDR] testing

Yahoo group: UHFSDR
Date: 2011-05-31 04:49:25 UTC
From: MIKE DURKIN
Topic: 198 Message: 200

Im using a Si570BBA that I picked up a month befre getting the kit. I looked up its default and it showed 10Mhz ... im using the K5BCQ kit#2 and paralleled the controll lines for the Si570. I set the devisor to 2 - memory location 005 and removed my offset that was programed for my Atlas 350XL.

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Mon, 30 May 2011 21:37:56 -0700
Subject: Re: [UHFSDR] testing

Depends on the software. If no offset, you tune to 10 MHz X 2.
If using PowerSDR-IQ, which defaults to a 9 KHz offset, you would
tune to 9.991 X 2 = 19.982. If you bought the kit, that is the
default freq. of the Si570. With a default freq of 19.982 asnd
ZPowerSDR-IQ you should be able to receive WWVat 10 MHz(assuming you
have propagation to either Boulder, Colorado or to Hawaii for WWVH).

Dave - WB6DHW

<http://wb6dhw.com>

On 5/30/2011 9:18 PM, seth_otherpower wrote:

If i wanted to listen to 10Mhz WWV on the speaker output
.... the Si570 would be tuned to 9.998Mhz * 2?

Mabey I don't have Kees controller set right because im
not hearing anything but static.

201. RE: [UHFSDR] testing

Yahoo group: UHFSDR
Date: 2011-05-31 05:09:40 UTC
From: MIKE DURKIN
Topic: 198 Message: 201

When in Rx ... U2 pin 6 is 5v? When I power up U2 is in Tx mode ... 0 ohms between pin5 and 3. Rx should be pin 5 and 1.

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Mon, 30 May 2011 21:37:56 -0700
Subject: Re: [UHFSDR] testing

Depends on the software. If no offset, you tune to 10 MHz X 2.
If using PowerSDR-IQ, which defaults to a 9 KHz offset, you would
tune to 9.991 X 2 = 19.982. If you bought the kit, that is the
default freq. of the Si570. With a default freq of 19.982 asnd
ZPowerSDR-IQ you should be able to receive WWVat 10 MHz(assuming you
have propagation to either Boulder, Colorado or to Hawaii for WWVH).

Dave - WB6DHW

<http://wb6dhw.com>

On 5/30/2011 9:18 PM, seth_otherpower wrote:

If i wanted to listen to 10Mhz WWV on the speaker output
.... the Si570 would be tuned to 9.998Mhz * 2?

Mabey I don't have Kees controller set right because im
not hearing anything but static.

202. Re: [MOBOKITS] UHFSDR-MOBO-WIDGET...

Yahoo group: UHFSDR
Date: 2011-06-02 08:36:56 UTC
From: Rob
Topic: 182 Message: 202

Hi Alan,

I was very keen on the UHFSDR kit and asked you to put me on the list. Later on I realised that I would need other sub-systems to make it work, such as bandpass transmit filters. This has put me off buying because I don't know what else I might need.

Would you be able to put together a list of what I would need to get a fully working tx and rx system ?

If you can do this, please assume I have nothing other than a few bench power supplies, a couple of sub-1MHz sig gens, an oscillope and a few PCs. I have parallel ports available and I guess I should leave control via usb for another day. I can run linux, windows or solaris.

I think I need a physical means of programming the si570, some tx/rx band pass filters and software such as powersdr, to decode/encode I&Q channels. I don't know what hardware is available, or its costs, to fill these needs and I don't know what additional software I need for programming the si570.

I had mis-understood the UHFSDR as a complete system but would still be interested if I can understand the whole system needed (and its costs).

I hope you can help with this.

Thanks
Rob

PS Apologies if this has already been answered, I did search this and softrock40 groups.

--- In UHFSDR@yahoogroups.com, "The Silver Fox" <alan.r.hill@...> wrote:
>
> The mobo kits are still available and I have no plans to stop producing them
> as long as orders persist. There are more than 200 boards out there and
> improvements would still be of benefit.
>
> The UHFSDR full kits are in a lull and currently only two kits remain. Once
> I can order si570's I will make them available again. The demand for them
> has not kept the cash flow rolling enough to sustain constant supply. I
> have parts for the full UHFSDR kits without the si570 for anyone who is
> interested.
>
> 73's
>
> Alan - W6ARH
>
>
>

>
>
> From: mobokits@... [mailto:mobokits@...] On Behalf
> Of W9AMR@...
> Sent: Wednesday, May 18, 2011 7:13 PM
> To: uhf-sdrkits@googlegroups.com; sdr-widget@...;
> MOBOKITS@...
> Subject: [MOBOKITS] UHFSDR-MOBO-WIDGET...
>
>
>
> Here is the working setup. Tedious but doable. Works fine! No issues that I
> could not over come with a few evenings of tinkering. 5 watts 10-160 easily.
> Next is the VHF side of things!
>
>
>
> Larry W9AMR
>

203. Re: [UHFSDR] Re: [MOBOKITS] UHFSDR-MOBO-WIDGET...

Yahoo group: UHFSDR
Date: 2011-06-02 17:11:29 UTC
From: dave
Topic: 182 Message: 203

Rob:
For a complete transceiver that meets FCC requirements, you will need a set of receive BPFs, a set of transmit LPFs, and a RF power amplifier(assuming you want to use more than 50mW). For Software, PowerSDR-IQ can be set up for the UHFSDR. Since you have a parallel port available, that is the easiest way to control the Si570. PowerSDR-IQ can do that.
My BPF board will work for a set of 1.5 to 30 MHz BPF receive filters. For VHF/UHF, you would need to use another BPF board with VHF/UHF filters or design your own. The UHFSDR works without receive filters, but will be subject to the 3X, 5X, etc responses that all DBM mixers have.
I have a 100W low pass filter board that I designed for our club transceiver project that is controlled via the I2C bus. This would require an addition to the software for full control. It could also be wired for manual control.

Dave - WB6DHW
<http://wb6dhw.com>

On 6/2/2011 1:36 AM, Rob wrote:
>
> Hi Alan,
>
> I was very keen on the UHFSDR kit and asked you to put me on the list. Later
> on I realised that I would need other sub-systems to make it work, such as
> bandpass transmit filters. This has put me off buying because I don't know
> what else I might need.
>
> Would you be able to put together a list of what I would need to get a fully
> working tx and rx system ?
>
> If you can do this, please assume I have nothing other than a few bench power
> supplies, a couple of sub-1MHz sig gens, an oscillope and a few PCs. I have
> parallel ports available and I guess I should leave control via usb for
> another day. I can run linux, windows or solaris.
>
> I think I need a physical means of programming the si570, some tx/rx band pass
> filters and software such as powersdr, to decode/encode I&Q channels. I don't
> know what hardware is available, or its costs, to fill these needs and I don't
> know what additional software I need for programming the si570.
>
> I had mis-understood the UHFSDR as a complete system but would still be
> interested if I can understand the whole system needed (and its costs).
>
> I hope you can help with this.
>
> Thanks

> Rob
>
> PS Apologies if this has already been answered, I did search this and
> softrock40 groups.
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, "The Silver
> Fox" <alan.r.hill@...> wrote:
> >
> > The mobo kits are still available and I have no plans to stop producing them
> > as long as orders persist. There are more than 200 boards out there and
> > improvements would still be of benefit.
> >
> > The UHFSDR full kits are in a lull and currently only two kits remain. Once
> > I can order si570's I will make them available again. The demand for them
> > has not kept the cash flow rolling enough to sustain constant supply. I
> > have parts for the full UHFSDR kits without the si570 for anyone who is
> > interested.
> >
> > 73's
> >
> > Alan - W6ARH
>
>

204. Re: [UHFSDR] Re: [MOBOKITS] UHFSDR-MOBO-WIDGET...

Yahoo group: UHFSDR
Date: Unknown date
From: Glen Overby
Topic: 182 Message: 204

dave <dave@...> wrote:
> For a complete transceiver that meets FCC requirements, you will need a set
> of receive BPFs, a set of transmit LPFs, and a RF power amplifier(assuming you
> want to use more than 50mW). For Software, PowerSDR-IQ can be set up for the
> UHFSDR. Since you have a parallel port available, that is the easiest way to
> control the Si570. PowerSDR-IQ can do that.
> My BPF board will work for a set of 1.5 to 30 MHz BPF receive filters. For
> VHF/UHF, you would need to use another BPF board with VHF/UHF filters or design
> your own. The UHFSDR works without receive filters, but will be subject to the

If anyone has designed and built VHF/UHF filters for this board, I would appreciated it if you would share the design. I've got a couple of projects that are in need of a good filter. I used Elsie to design some bandpass filters, but haven't gotten one to work right.

I found this filter design, but have not constructed on myself (yet):
http://yu1lm.qrpradio.com/2m%20BP%20FILTER-YU1LM.pdf

This is what I plan to use for an amplifier:
http://www.aa1yn.com/dsp-10/brick/brick.html

it uses the same amplifier part as found in Down East Microwave products.

73,
Glen, kc0iyt

205. FW: AS159/AS169 needed

Yahoo group: UHFSDR
Date: 2011-06-12 01:51:25 UTC
From: The Silver Fox
Topic: 205 Message: 205

For info and reference should others encounter the issue.
73's
Alan - W6ARH

-----Original Message-----
From: Sid Boyce [mailto:sboyce@...]
Sent: Saturday, June 11, 2011 6:23 PM
To: The Silver Fox
Subject: Re: AS159/AS169 needed

Thanks Alan,
I just found some on EBay and have ordered a set of 5 AS169's for $10.49
free shipment from USA.
I'm about to solder in a .1 between U4 pin 3 and Ant_Sw as a temporary
workaround for RX. I I decide to go on to TX I can even use a small
sealed metal cased +5V relay as I have some in a parts cabinet in the loft.
73 ... Sid.

On 11/06/11 21:52, The Silver Fox wrote:
> Sid,
> According to the BOM I have the CSH210R is the replacement part for the
> AS169 and the HMC544. I do not have either of those chips. I think
we/you
> should query the group since there have been no indication of troubles so
> far.
> 73's
> Alan - W6ARH
>
> -----Original Message-----
> From: Sid Boyce [mailto:sboyce@...]
> Sent: Saturday, June 11, 2011 1:43 PM
> To: The Silver Fox
> Subject: AS159/AS169 needed
>
> It's on the original UHFSDR not the one I got from you.
> U2-6 is high but pin1 -> pin 5 is an open circuit.
> If you have spares, I'd like to buy at least one or 2 if you can spare
them.
> If you have HMC544's I would definitely need to change bot U2 and U7
> I'll Paypal on a reply that says you can.
> 73 ... Sid.

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach

Microsoft Windows Free Zone - Linux used for all Computing Tasks

206. which si570?

Yahoo group: UHFSDR
Date: 2011-06-16 03:35:43 UTC
From: Edward
Topic: 206 Message: 206

All,

Hello, I am new to the group and trying to make an SDR for my microwave IF. I ordered a board and a "mini-kit".

Is there a good source (to buy) for an Si570 appropriate for a 144mHz transverter interface? (such as KM5H)

Also, when one speaks of an A/B/C part, are they talking about the frequency range or the interface type?

It may also be useful if this would receive on 432 mHz so it could be used as an IF for a 24gig transverter...

tnx,
Ed wa3drc

207. Si570

Yahoo group: UHFSDR
Date: 2011-06-16 03:37:17 UTC
From: brainerdd
Topic: 170 Message: 207

If you are going to use the UHFSDR as a fixed freq. IF for a UHF or higher station, order an Si570 with startup freq twice that of the IF. ie for a 144 MHz IF, order with startup frequency of 288 MHz. If you don't need to vary from that frequency, you won't need to control the Si570. If fact, you could use a Si550 or a Si595 fixed freq chip(Silicon offers free samples of these!). Order the LVPECL option. CMOS will NOT work because the UHFSDR needs both the Q and Qnot outputs to generate the I and Q.

Dave - WB6DHW
<http://wb6dhw.com>

208. Re: Si570

Yahoo group: UHFSDR
Date: 2011-06-16 03:46:39 UTC
From: Edward
Topic: 170 Message: 208

Dave,

I do need to tune the IF from 144.000 to 144.300 to find both contacts and beacons. I now understand I should find a Si570AX(A/B)... part to work at 144/432 mHz.

Is there a ham source for this, or should I try direct from silicon labs?

tnx,
Ed

--- In UHFSDR@yahoogroups.com, "brainerdd" <dave@...> wrote:
>
> If you are going to use the UHFSDR as a fixed freq. IF for a UHF or higher station, order an Si570 with startup freq twice that of the IF. ie for a 144 MHz IF, order with startup frequency of 288 MHz. If you don't need to vary from that frequency, you won't need to control the Si570. If fact, you could use a Si550 or a Si595 fixed freq chip(Silicon offers free samples of these!). Order the LVPECL option. CMOS will NOT work because the UHFSDR needs both the Q and Qnot outputs to generate the I and Q.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>

209. Re: [UHFSDR] which si570?

Yahoo group: UHFSDR
Date: 2011-06-16 03:51:23 UTC
From: dave
Topic: 206 Message: 209

Ed:

A,B, or C refer to the speed. For 432 you will need the A(most expensive) grade. You can order from the Silabs website at <https://www.silabs.com/products/clocksoscillators/Pages/XOVCXOUtility.aspx?cm_sp=%3CWebParts%3E-_-%3CBuyXOsVCXOs%3E-_-%3CBuildCrystal%3E>
It will end up saying "back orered" because they have to program the startup freq. in the factory. Takes 2 to 4 weeks to receive.

Dave - WB6DHW
<http://wb6dhw.com>

On 6/15/2011 8:35 PM, Edward wrote:
>
> All,
>
> Hello, I am new to the group and trying to make an SDR for my microwave IF. I
> ordered a board and a "mini-kit".
>
> Is there a good source (to buy) for an Si570 appropriate for a 144mHz
> transverter interface? (such as KM5H)
>
> Also, when one speaks of an A/B/C part, are they talking about the frequency
> range or the interface type?
>
> It may also be useful if this would receive on 432 mHz so it could be used as
> an IF for a 24gig transverter...
>
> tnx,
> Ed wa3drc
>
>
>

210. Re: which si570?

Yahoo group: UHFSDR
Date: 2011-06-16 03:55:50 UTC
From: Edward
Topic: 206 Message: 210

RR, tnx!

--- In UHFSDR@yahoogroups.com, dave <dave@...> wrote:
>
> Ed:
>
> A,B, or C refer to the speed. For 432 you will need the A(most expensive)
> grade. You can order from the Silabs website at
> <https://www.silabs.com/products/clocksoscillators/Pages/XOVCXOUtility.aspx?cm_sp=%3CWebParts%3E-_-%3CBuyXOsVCXOs%3E-_-%3CBuildCrystal%3E>
> It will end up saying "back orered" because they have to program the startup
> freq. in the factory. Takes 2 to 4 weeks to receive.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 6/15/2011 8:35 PM, Edward wrote:
> >
> > All,
> >
> > Hello, I am new to the group and trying to make an SDR for my microwave IF. I
> > ordered a board and a "mini-kit".
> >
> > Is there a good source (to buy) for an Si570 appropriate for a 144mHz
> > transverter interface? (such as KM5H)
> >
> > Also, when one speaks of an A/B/C part, are they talking about the frequency
> > range or the interface type?
> >
> > It may also be useful if this would receive on 432 mHz so it could be used as
> > an IF for a 24gig transverter...
> >
> > tnx,
> > Ed wa3drc
> >
> >
> >
>

211. Silver Fox de sm0rjv

Yahoo group: UHFSDR
Date: 2011-06-16 17:54:12 UTC
From: Mats Helgöstam (Home)
Topic: 211 Message: 211

Alan,
a while back you mentioned here on the group list that you have complete kits less the si570. I asked what the price would be but have seen no answer so far. I might, as I said before, be interested in such a kit depending on the price. Contact me directly (off list) if you prefer so we can sort the details without cluttering this group :-)

mni 73's

Mats / sm0rjv

212. Re: Silver Fox de sm0rjv

Yahoo group: UHFSDR
Date: 2011-06-17 17:05:52 UTC
From: Edward
Topic: 211 Message: 212

Mats,

If it helps... I just ordered all the remainder of the parts (aside from the PC board, mini-kit, and Si570) yesterday from Digikey. The Digikey order was for ~$32.00 USD.

BTW, I used the spreadsheet on the UHFSDR web site to upload to Digikey. My order shipped 35 minutes later.

Ed wa3drc

--- In UHFSDR@yahoogroups.com, Mats Helgöstam (Home) <mhelg@...> wrote:
>
> Alan,
> a while back you mentioned here on the group list that you have complete kits less the si570. I asked what the price would be but have seen no answer so far. I might, as I said before, be interested in such a kit depending on the price. Contact me directly (off list) if you prefer so we can sort the details without cluttering this group :-)
>
> mni 73's
>
> Mats / sm0rjv
>

213. Re: [UHFSDR] Re: Silver Fox de sm0rjv

Yahoo group: UHFSDR
Date: 2011-06-17 17:53:20 UTC
From: Mats Helgöstam (Home)
Topic: 211 Message: 213

Hi Ed,
thank you for the information. I am in contact with Alan by now so it's sorted. Complete kit less SI570 is 156USD.

Mats / sm0rjv

----- Original Message -----
From: Edward
To: UHFSDR@yahoogroups.com
Sent: Friday, June 17, 2011 7:05 PM
Subject: [UHFSDR] Re: Silver Fox de sm0rjv

Mats,

If it helps... I just ordered all the remainder of the parts (aside from the PC board, mini-kit, and Si570) yesterday from Digikey. The Digikey order was for ~$32.00 USD.

BTW, I used the spreadsheet on the UHFSDR web site to upload to Digikey. My order shipped 35 minutes later.

Ed wa3drc

--- In UHFSDR@yahoogroups.com, Mats Helgöstam (Home) <mhelg@...> wrote:
>
> Alan,
> a while back you mentioned here on the group list that you have complete kits less the si570. I asked what the price would be but have seen no answer so far. I might, as I said before, be interested in such a kit depending on the price. Contact me directly (off list) if you prefer so we can sort the details without cluttering this group :-)
>
> mni 73's
>
> Mats / sm0rjv
>

214. Re: Silver Fox de sm0rjv

Yahoo group: UHFSDR
Date: 2011-06-18 00:31:53 UTC
From: Edward
Topic: 211 Message: 214

Mats,

We will probably be bringing these up at the same time. Good Luck!

Ed

--- In UHFSDR@yahoogroups.com, Mats Helgöstam (Home) <mhelg@...> wrote:
>
> Hi Ed,
> thank you for the information. I am in contact with Alan by now so it's sorted. Complete kit less SI570 is 156USD.
>
> Mats / sm0rjv
>
>
> ----- Original Message -----
> From: Edward
> To: UHFSDR@yahoogroups.com
> Sent: Friday, June 17, 2011 7:05 PM
> Subject: [UHFSDR] Re: Silver Fox de sm0rjv
>
>
>
> Mats,
>
> If it helps... I just ordered all the remainder of the parts (aside from the PC board, mini-kit, and Si570) yesterday from Digikey. The Digikey order was for ~$32.00 USD.
>
> BTW, I used the spreadsheet on the UHFSDR web site to upload to Digikey. My order shipped 35 minutes later.
>
> Ed wa3drc
>
> --- In UHFSDR@yahoogroups.com, Mats Helgöstam (Home) <mhelg@> wrote:
> >
> > Alan,
> > a while back you mentioned here on the group list that you have complete kits less the si570. I asked what the price would be but have seen no answer so far. I might, as I said before, be interested in such a kit depending on the price. Contact me directly (off list) if you prefer so we can sort the details without cluttering this group :-)
> >
> > mni 73's
> >
> > Mats / sm0rjv
> >
>

215. Re: [UHFSDR] Full Kits

Yahoo group: UHFSDR
Date: 2011-07-06 14:05:31 UTC
From: Sid Boyce
Topic: 135 Message: 215

Hi Alan,
I wonder if you have any spare components for the UHFSDR available.
Everything was going fine with the build, then after a power down and
power on again I hit problems with I2C which I traced to the
LP2995AIM5-3.3.
Input voltage +4.99V, output +2.2V.
I lifted pin 5 and wired in my trusty standby LM317T +3.3V regulator
that I knocked up some time ago when one was DOA on a SR63ng.
That (+3.29V output) confirms the LP2995 is faulty.
U13 (ADUM1250) was also faulty before U12 died but I have spares on
hand, so that is fixed.
If you also have CDSU101A's spare also, contact me direct, I'd like to
grab one or 2 - AVNET are asking a king's ransom for shipment.
73 ... Sid.

On 02/05/11 22:03, The Silver Fox wrote:
>
> I am currently out of stock on the full kits. My Xyl is not happy
> with me spending so much time with the kits so she will not let me
> front the money for future orders. That's the bad news. The not so
> bad is that if I can get ten orders prepaid, I think I can move
> forward on the orders for more. The caveat beyond paying up front is
> that the lead time on Si570's is indeterminate but the last time it
> took six weeks. Please let me know if you can tolerate these
> conditions and I will post the status as it proceeds. There is no
> need to pay until I get ten committed buyers.
>
> 73's
>
> Alan --W6ARH
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

216. RE: [UHFSDR] Full Kits

Yahoo group: UHFSDR
Date: 2011-07-06 15:52:37 UTC
From: The Silver Fox
Topic: 135 Message: 216

Sid,

I will check the inventory and get back to you. Thanks to the continued interest in the Mobokits, I am getting close to being able to do another run of TEN full kits. I will notify the group when I have an expected availability date.

73's

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Sid Boyce
Sent: Wednesday, July 06, 2011 7:06 AM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Full Kits

Hi Alan,
I wonder if you have any spare components for the UHFSDR available.
Everything was going fine with the build, then after a power down and power on again I hit problems with I2C which I traced to the LP2995AIM5-3.3.
Input voltage +4.99V, output +2.2V.
I lifted pin 5 and wired in my trusty standby LM317T +3.3V regulator that I knocked up some time ago when one was DOA on a SR63ng.
That (+3.29V output) confirms the LP2995 is faulty.
U13 (ADUM1250) was also faulty before U12 died but I have spares on hand, so that is fixed.
If you also have CDSU101A's spare also, contact me direct, I'd like to grab one or 2 - AVNET are asking a king's ransom for shipment.
73 ... Sid.

On 02/05/11 22:03, The Silver Fox wrote:

I am currently out of stock on the full kits. My Xyl is not happy with me spending so much time with the kits so she will not let me front the money for future orders. That's the bad news. The not so bad is that if I can get ten orders prepaid, I think I can move forward on the orders for more. The caveat beyond paying up front is that the lead time on Si570's is indeterminate but the last time it took six weeks. Please let me know if you can tolerate these conditions and I will post the status as it proceeds. There is no need to pay until I get ten committed buyers.

73's

Alan -W6ARH

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

217. UHFSDR Performance

Yahoo group: UHFSDR
Date: 2011-07-11 04:58:39 UTC
From: nwplouff
Topic: 217 Message: 217

After reading all messages in this Yahoo group and skimming UHFSDR-related messages in the SoftRock40 group, still looking... Has anyone measured the RX or TX performance of UHFSDR on any band?

In the Softrock group, there is a thread <http://groups.yahoo.com/group/softrock40/message/49153> from October 2010. One writer says UHFSDR's performance is comparable to his commercial HF and VHF rigs. There's also a YouTube video <http://www.youtube.com/watch?v=0VymGjoI9IE> that shows a bare UHFSDR board operating quite nicely on what appears to be 40 meters.

Are there any numbers available, though, or comparisons to other rigs?

Wes AC8JF

218. Re: [UHFSDR] UHFSDR Performance

Yahoo group: UHFSDR
Date: 2011-07-11 13:37:19 UTC
From: Sid Boyce
Topic: 217 Message: 218

The first comparison I made was with the IC-7200 and the SR v6.3, it compared favourably listening to stations. However, I have not made any measurements.
My first UHFSDR still needs a bit of troubleshooting as I have an image problem, L channel is dead. When it was working I was quite pleased with the performance. I did have a spate of si570A's failing, the first after about a month followed by 2 others that were DOA and I think removing parts while troubleshooting the si570A problem accounted for the present problem but that'll easily be fixed.

Last night whilst building the second UHFSDR I did some RX tests on 20m and 40m, so far so good. Next moving on to building the TX and RX amps in the next few minutes.
I have a 5W PA ready when TX is ready to be tested.

The main attraction of the UHFSDR is the wide coverage it offers in a small package.
Currently I'm using it with the SDR-Widget.

Others have moved further on, like NO5K on the AQRP group who has used it on 2m as a standalone rig controlled by the SDR2GO and with good results.
Larry (W9AMR) has also done some work getting the UHFSDR + SDR-Widget + Mobo v4.3.4 going, so it's also very flexible.

I must like it very much as I bought a second kit.
73 ... Sid.

On 11/07/11 05:58, nwplouff wrote:
>
> After reading all messages in this Yahoo group and skimming
> UHFSDR-related messages in the SoftRock40 group, still looking... Has
> anyone measured the RX or TX performance of UHFSDR on any band?
>
> In the Softrock group, there is a thread
> <http://groups.yahoo.com/group/softrock40/message/49153> from October
> 2010. One writer says UHFSDR's performance is comparable to his
> commercial HF and VHF rigs. There's also a YouTube video
> <http://www.youtube.com/watch?v=0VymGjoI9IE> that shows a bare UHFSDR
> board operating quite nicely on what appears to be 40 meters.
>
> Are there any numbers available, though, or comparisons to other rigs?
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> Wes AC8JF
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>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

219. Re: Full Kits

Yahoo group: UHFSDR
Date: 2011-07-12 16:25:28 UTC
From: Steven Dick
Topic: 135 Message: 219

--- In UHFSDR@yahoogroups.com, "The Silver Fox" <alan.r.hill@...> wrote:
>
>Thanks to the continued
> interest in the Mobokits, I am getting close to being able to do another run
> of TEN full kits. I will notify the group when I have an expected
> availability date.

Hi Alan. I would be interested in purchasing a UHFSDR kit when it becomes available. Please add me to your waiting list. Thanks.

"Digital Steve", K1RF

220. RE: [UHFSDR] Re: Full Kits

Yahoo group: UHFSDR
Date: 2011-07-12 17:27:15 UTC
From: The Silver Fox
Topic: 135 Message: 220

Will do. Just today, I am able to order the needed parts. They are expensive and will probably take a few weeks to receive. Stay tuned.

73's

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Steven Dick
Sent: Tuesday, July 12, 2011 9:25 AM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Re: Full Kits

--- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com> , "The Silver Fox" <alan.r.hill@...> wrote:
>
>Thanks to the continued
> interest in the Mobokits, I am getting close to being able to do another run
> of TEN full kits. I will notify the group when I have an expected
> availability date.

Hi Alan. I would be interested in purchasing a UHFSDR kit when it becomes available. Please add me to your waiting list. Thanks.

"Digital Steve", K1RF

221. RE: [UHFSDR] Re: Full Kits

Yahoo group: UHFSDR
Date: 2011-07-13 03:34:58 UTC
From: Jeff Thompson
Topic: 135 Message: 221

Alan,

For those of us in the middle of traumatic change of QTH and career,
is there a full kit available (all but the box...) with a price? I
believe I have seen partials, but never a complete UHFSDR listing.

Thanks & 72's,

Jeff Thompson, W3HVU

Quoting The Silver Fox <alan.r.hill@...>:

> Will do. Just today, I am able to order the needed parts. They are
> expensive and will probably take a few weeks to receive. Stay tuned.
>
> 73's
>
> Alan - W6ARH
>
>
>
> From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
> Steven Dick
> Sent: Tuesday, July 12, 2011 9:25 AM
> To: UHFSDR@yahoogroups.com
> Subject: [UHFSDR] Re: Full Kits
>
>
>

222. RE: [UHFSDR] Re: Full Kits

Yahoo group: UHFSDR
Date: 2011-07-13 04:06:38 UTC
From: The Silver Fox
Topic: 135 Message: 222

Jeff,

I am about to order more components to fill ten more orders and in the past there has unfortunately been a several week lead for these important parts. I am willing to take up to ten orders but it is not necessary if you are willing to take your chances with the availability. Frankly, I have been surprised that with the number of participants of this list, that there hasn't been more demand. Then again, there is no web advertisement for these kits.

YES. I DO MAKE THE KITS AVAILABLE SO KEEP WATCHING THIS GROUP'S MAIL.

73's

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Jeff Thompson
Sent: Tuesday, July 12, 2011 8:35 PM
To: UHFSDR@yahoogroups.com
Subject: RE: [UHFSDR] Re: Full Kits

Alan,

For those of us in the middle of traumatic change of QTH and career, is there a full kit available (all but the box...) with a price? I believe I have seen partials, but never a complete UHFSDR listing.

Thanks & 72's,

Jeff Thompson, W3HVU

Quoting The Silver Fox <alan.r.hill@...
<mailto:alan.r.hill%40gmail.com> >:

> Will do. Just today, I am able to order the needed parts. They are
> expensive and will probably take a few weeks to receive. Stay tuned.
>
> 73's
>
> Alan - W6ARH
>
>
>
> From: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
[mailto:UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>] On Behalf Of
> Steven Dick

> Sent: Tuesday, July 12, 2011 9:25 AM
> To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> Subject: [UHFSDR] Re: Full Kits
>
>
>

223. RE: [UHFSDR] Re: Full Kits

Yahoo group: UHFSDR
Date: 2011-07-13 04:45:49 UTC
From: Jeff Thompson
Topic: 135 Message: 223

Hi Alan,

Thanks for the prompt reply. What I was looking for was a price for all the parts and PC boards. I know that sometimes we have to wait weeks for parts; that's ok with me. But I need to know how many Yankee Dollars I am looking at. This move is costing me hobby $$, so I must be a bit prudent. And that sux!! LOL

Thanks and 72's,

Jeff W3HVU

Quoting The Silver Fox <alan.r.hill@...>:

> Jeff,
>
> I am about to order more components to fill ten more orders and in the
> past there has unfortunately been a several week lead for these important
> parts. I am willing to take up to ten orders but it is not necessary if you
> are willing to take your chances with the availability. Frankly, I have
> been surprised that with the number of participants of this list, that there
> hasn't been more demand. Then again, there is no web advertisement for
> these kits.
>
> YES. I DO MAKE THE KITS AVAILABLE SO KEEP WATCHING THIS GROUP'S MAIL.
>
> 73's
>
> Alan - W6ARH
>
>
>
> From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
> Jeff Thompson
> Sent: Tuesday, July 12, 2011 8:35 PM
> To: UHFSDR@yahoogroups.com
> Subject: RE: [UHFSDR] Re: Full Kits
>
>
>
>
>
> Alan,
>
> For those of us in the middle of traumatic change of QTH and career,
> is there a full kit available (all but the box...) with a price? I

> believe I have seen partials, but never a complete UHFSDR listing.
>
> Thanks & 72's,
>
> Jeff Thompson, W3HVU
>>
>> From: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> [mailto:UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>] On Behalf
> Of
>> Steven Dick
>> Sent: Tuesday, July 12, 2011 9:25 AM
>> To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
>> Subject: [UHFSDR] Re: Full Kits
>>
>>
>>
>
>
>
>

Jeff, W3HVU

224. RE: [UHFSDR] Re: Full Kits

Yahoo group: UHFSDR
Date: 2011-07-13 05:07:11 UTC
From: MIKE DURKIN
Topic: 135 Message: 224

I demand 2 more full kits ... but iv been out of work for over 2 years now (I was able to buy the one I did from a lucky drop of some cash) ... I bet that if you find a way to reduce the price 30$ (more?) you couldn't keep up with demand.

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: alan.r.hill@...
Date: Tue, 12 Jul 2011 21:06:38 -0700
Subject: RE: [UHFSDR] Re: Full Kits

Jeff,
I am about to order more components to fill ten more orders and in the past there has unfortunately been a several week lead for these important parts. I am willing to take up to ten orders but it is not necessary if you are willing to take your chances with the availability. Frankly, I have been surprised that with the number of participants of this list, that there hasn’t been more demand. Then again, there is no web advertisement for these kits.YES. I DO MAKE THE KITS AVAILABLE SO KEEP WATCHING THIS GROUP’S MAIL.73’sAlan – W6ARH From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Jeff Thompson
Sent: Tuesday, July 12, 2011 8:35 PM
To: UHFSDR@yahoogroups.com
Subject: RE: [UHFSDR] Re: Full Kits Alan,

For those of us in the middle of traumatic change of QTH and career,
is there a full kit available (all but the box...) with a price? I
believe I have seen partials, but never a complete UHFSDR listing.

Thanks & 72's,

Jeff Thompson, W3HVU

Quoting The Silver Fox <alan.r.hill@...>:

> Will do. Just today, I am able to order the needed parts. They are
> expensive and will probably take a few weeks to receive. Stay tuned.
>
> 73's
>
> Alan - W6ARH
>
>
>
> From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
> Steven Dick
> Sent: Tuesday, July 12, 2011 9:25 AM
> To: UHFSDR@yahoogroups.com

> Subject: [UHFSDR] Re: Full Kits
>
>
>

225. RE: [UHFSDR] Re: Full Kits

Yahoo group: UHFSDR
Date: 2011-07-13 06:41:01 UTC
From: Gert Christiansen
Topic: 135 Message: 225

Hi Alan,

If possible, I'd like to be put on the waiting list for a kit as well.

Thanks and 73.

Gert
OZ4AGM

On Tue, 2011-07-12 at 10:27 -0700, The Silver Fox wrote:
>
>
> Will do. Just today, I am able to order the needed parts. They are
> expensive and will probably take a few weeks to receive. Stay tuned.
>
> 73’s
>
> Alan – W6ARH
>
>
>
> From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf
> Of Steven Dick
> Sent: Tuesday, July 12, 2011 9:25 AM
> To: UHFSDR@yahoogroups.com
> Subject: [UHFSDR] Re: Full Kits
>
>
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>
> --- In UHFSDR@yahoogroups.com, "The Silver Fox" <alan.r.hill@...>
> wrote:
> >
> >Thanks to the continued
> > interest in the Mobokits, I am getting close to being able to do
> another run
> > of TEN full kits. I will notify the group when I have an expected
> > availability date.
>
> Hi Alan. I would be interested in purchasing a UHFSDR kit when it
> becomes available. Please add me to your waiting list. Thanks.
>

> "Digital Steve", K1RF
>
>
>
>
>
>

226. RE: [UHFSDR] Re: Full Kits

Yahoo group: UHFSDR
Date: 2011-07-13 16:26:51 UTC
From: The Silver Fox
Topic: 135 Message: 226

I could easily do that if there was a less expensive and reliable means of payment. Paypal and other overhead are responsible for the apparent inflation. Over time some pieces go up in price but then again, some go down.

The main driver is the cost of the Si570. If the customer base wanted the best, the cost would increase by more than $50. While there was a comment about getting the partial kit and ordering $35 worth of parts to finish I am very doubtful since my calculation is it is over $100.

Thanks for the suggestion. I am happy to take suggestions and criticisms to help the group.

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of MIKE DURKIN
Sent: Tuesday, July 12, 2011 10:07 PM
To: uhfsdr@yahoogroups.com
Subject: RE: [UHFSDR] Re: Full Kits

I demand 2 more full kits ... but iv been out of work for over 2 years now (I was able to buy the one I did from a lucky drop of some cash) ... I bet that if you find a way to reduce the price 30$ (more?) you couldn't keep up with demand.

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: alan.r.hill@...
Date: Tue, 12 Jul 2011 21:06:38 -0700
Subject: RE: [UHFSDR] Re: Full Kits

Jeff,

I am about to order more components to fill ten more orders and in the past there has unfortunately been a several week lead for these important parts. I am willing to take up to ten orders but it is not necessary if you are willing to take your chances with the availability. Frankly, I have been surprised that with the number of participants of this list, that there hasn't been more demand. Then again, there is no web advertisement for these kits.

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73's

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
Jeff Thompson
Sent: Tuesday, July 12, 2011 8:35 PM
To: UHFSDR@yahoogroups.com
Subject: RE: [UHFSDR] Re: Full Kits

Alan,

For those of us in the middle of traumatic change of QTH and career,
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Thanks & 72's,

Jeff Thompson, W3HVU

Quoting The Silver Fox <alan.r.hill@...>:

> Will do. Just today, I am able to order the needed parts. They are
> expensive and will probably take a few weeks to receive. Stay tuned.
>
> 73's
>
> Alan - W6ARH
>
>
>
> From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
> Steven Dick
> Sent: Tuesday, July 12, 2011 9:25 AM
> To: UHFSDR@yahoogroups.com
> Subject: [UHFSDR] Re: Full Kits
>
>
>

227. Re: [UHFSDR] Re: Full Kits

Yahoo group: UHFSDR
Date: 2011-07-13 18:22:49 UTC
From: dave
Topic: 135 Message: 227

Alan:
The $35 is the cost if you use my DigiKey BOM. But, that does NOT include the Si570 and that is in addition to the partial kit, which is $40 for US, and the PCB, which is $10. That brings the total to $85 without the Si570. The 1.4 GHz Si570's, last time I checked(several months age), ranged from $60+ to $100+ from Silicon Labs. Alan adds some to the price because it is a LOT of work to put the complete out and he has a lot tied up in parts inventory. There is also the cost of the shipping materials(bags for parts, envelopes, etc). That also does not include an enclosure.

Dave - WB6DHW
<http://wb6dhw.com>

On 7/13/2011 9:26 AM, The Silver Fox wrote:
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> I could easily do that if there was a less expensive and reliable means of
> payment. Paypal and other overhead are responsible for the apparent
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> Thanks for the suggestion. I am happy to take suggestions and criticisms to
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> Alan -- W6ARH
>
> *From:*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] *On Behalf Of
> *MIKE DURKIN
> *Sent:* Tuesday, July 12, 2011 10:07 PM
> *To:* uhfsdr@yahoogroups.com
> *Subject:* RE: [UHFSDR] Re: Full Kits
>
> I demand 2 more full kits ... but iv been out of work for over 2 years now (I
> was able to buy the one I did from a lucky drop of some cash) ... I bet that
> if you find a way to reduce the price 30$ (more?) you couldn't keep up with
> demand.
>
> Mike KC7NOA
>
> ---
>
> To: UHFSDR@yahoogroups.com

> From: alan.r.hill@...
> Date: Tue, 12 Jul 2011 21:06:38 -0700
> Subject: RE: [UHFSDR] Re: Full Kits
>
> Jeff,
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>

228. Re(UHFSDR) Prices Build

Yahoo group: UHFSDR
Date: 2011-07-13 19:19:23 UTC
From: Alvey Street
Topic: 228 Message: 228

The prices seem OK to me Dave. I must put together the partial kit that
I bought,
now that Farnell have supplied the rest. While I am doing this build, I
will time
everything and try to arrive at a realistic cost for building the kit.
There may be
some interest out there from people that would like a built and tested PCB.
Anybody interested in principle?
Regards Vin

229. RE: [UHFSDR] Re: Full Kits

Yahoo group: UHFSDR
Date: 2011-07-13 20:32:22 UTC
From: The Silver Fox
Topic: 135 Message: 229

I'll do another price run when I order the si570's. I think people forget that you have to include shipping and taxes when they apply to the acquisition of inventory. I spend a lot of time re-packaging and identifying the components. I am not experiencing much in the way of profit. At the moment, it all goes back into inventory resupply.

73's

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of dave
Sent: Wednesday, July 13, 2011 11:23 AM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: Full Kits

Alan:
The $35 is the cost if you use my DigiKey BOM. But, that does NOT include the Si570 and that is in addition to the partial kit, which is $40 for US, and the PCB, which is $10. That brings the total to $85 without the Si570. The 1.4 GHz Si570's, last time I checked(several months age), ranged from $60+ to $100+ from Silicon Labs. Alan adds some to the price because it is a LOT of work to put the complete out and he has a lot tied up in parts inventory. There is also the cost of the shipping materials(bags for parts, envelopes, etc). That also does not include an enclosure.

Dave - WB6DHW
<http://wb6dhw.com> <http://wb6dhw.com>

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The main driver is the cost of the Si570. If the customer base wanted the best, the cost would increase by more than $50. While there was a comment about getting the partial kit and ordering $35 worth of parts to finish I am very doubtful since my calculation is it is over $100.

Thanks for the suggestion. I am happy to take suggestions and criticisms to help the group.

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of MIKE DURKIN

Sent: Tuesday, July 12, 2011 10:07 PM
To: uhfsdr@yahoogroups.com
Subject: RE: [UHFSDR] Re: Full Kits

I demand 2 more full kits ... but iv been out of work for over 2 years now (I was able to buy the one I did from a lucky drop of some cash) ... I bet that if you find a way to reduce the price 30$ (more?) you couldn't keep up with demand.

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: alan.r.hill@...
Date: Tue, 12 Jul 2011 21:06:38 -0700
Subject: RE: [UHFSDR] Re: Full Kits

Jeff,

I am about to order more components to fill ten more orders and in the past there has unfortunately been a several week lead for these important parts. I am willing to take up to ten orders but it is not necessary if you are willing to take your chances with the availability. Frankly, I have been surprised that with the number of participants of this list, that there hasn't been more demand. Then again, there is no web advertisement for these kits.

YES. I DO MAKE THE KITS AVAILABLE SO KEEP WATCHING THIS GROUP'S MAIL.

73's

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Jeff Thompson
Sent: Tuesday, July 12, 2011 8:35 PM
To: UHFSDR@yahoogroups.com
Subject: RE: [UHFSDR] Re: Full Kits

Alan,

For those of us in the middle of traumatic change of QTH and career, is there a full kit available (all but the box...) with a price? I believe I have seen partials, but never a complete UHFSDR listing.

Thanks & 72's,

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Quoting The Silver Fox <alan.r.hill@...>:

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Checked by AVG - www.avg.com
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230. Re: [UHFSDR] Re: Full Kits

Yahoo group: UHFSDR
Date: 2011-07-13 21:42:16 UTC
From: dave
Topic: 135 Message: 230

Definitely true. Multiple sources mean multiple shipping charges. The less kits, the less people to spread out the cost of the shipping. Also, some items may not be available in single quantities. The prices I mentioned did not include the shipping(except for the mini kit and the PCB). Unless you have supplied a kit, you don't realize the time and effort involved.

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> From: alan.r.hill@... <mailto:alan.r.hill@...>
> Date: Tue, 12 Jul 2011 21:06:38 -0700
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>

231. RE: [UHFSDR] Re: Full Kits

Yahoo group: UHFSDR
Date: 2011-07-13 21:59:16 UTC
From: The Silver Fox
Topic: 135 Message: 231

I am currently engaged in a dialog with the Si570 provider and their web based price is currently indicating $119.09 for the previously available one for $57.13. I'll let everyone know what the outcome is. If the price holds high, there may be a delay before I can reconcile the price increase and justify covering the cost of inventory.

73's

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of dave
Sent: Wednesday, July 13, 2011 2:42 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: Full Kits

Definitely true. Multiple sources mean multiple shipping charges. The less kits, the less people to spread out the cost of the shipping. Also, some items may not be available in single quantities. The prices I mentioned did not include the shipping(except for the mini kit and the PCB). Unless you have supplied a kit, you don't realize the time and effort involved.

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23:34:00

232. coax jumper

Yahoo group: UHFSDR
Date: 2011-07-18 02:08:10 UTC
From: MIKE DURKIN
Topic: 232 Message: 232

Does it matter what kind of coax is used for the coax jumper?

233. Re: coax jumper

Yahoo group: UHFSDR
Date: 2011-07-18 02:30:44 UTC
From: Michael
Topic: 232 Message: 233

Just wondering because i have some micro coax from wlan stuff and RG174 is hard to use ... its silver too.

Mike KC7NOA

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
> Does it matter what kind of coax is used for the coax jumper?
>

234. Re: [UHFSDR] coax jumper

Yahoo group: UHFSDR
Date: 2011-07-18 03:48:19 UTC
From: dave
Topic: 232 Message: 234

Mike:
Not really. I used RG-174, but any small 50 ohm coax will work.

Dave - WB6DHW
http://wb6dhw.com>

On 7/17/2011 7:08 PM, MIKE DURKIN wrote:
>
> Does it matter what kind of coax is used for the coax jumper?
>

235. RE: [UHFSDR] coax jumper

Yahoo group: UHFSDR
Date: 2011-07-18 04:02:05 UTC
From: MIKE DURKIN
Topic: 232 Message: 235

Im not sure what it is .. but its thin and silver braid ...

Not sure hot to check the impedance of the coax .. put a 50ohm resistor and check swr ... i sapose.

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: dave@...m
Date: Sun, 17 Jul 2011 20:48:19 -0700
Subject: Re: [UHFSDR] coax jumper

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Does it matter what kind of coax is used for
the coax jumper?

236. Re: [UHFSDR] coax jumper

Yahoo group: UHFSDR
Date: 2011-07-18 09:36:14 UTC
From: dave
Topic: 232 Message: 236

Mike:
Considering the short length, should not make a difference.

Dave - WB6DHW
<http://wb6dhw.com>

On 7/17/2011 9:02 PM, MIKE DURKIN wrote:
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> Date: Sun, 17 Jul 2011 20:48:19 -0700
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237. Re: [UHFSDR] coax jumper

Yahoo group: UHFSDR
Date: 2011-07-18 11:53:16 UTC
From: Sid Boyce
Topic: 232 Message: 237

On my 2 builds I have used RG174 installed under the board so that it
doesn't get in the way of components on the top side.
73 ... Sid.

On 18/07/11 10:36, dave wrote:
>
> Mike:
> Considering the short length, should not make a difference.
>
> Dave - WB6DHW
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--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot

Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

238. Full Kit Status

Yahoo group: UHFSDR
Date: 2011-07-18 21:36:50 UTC
From: The Silver Fox
Topic: 238 Message: 238

I am close to being able to offer more full kits. The good news is that if I can manage the discount price for quantity of the Si570's I will be able to lower the price to $190 US and $196 DX. The bad news is that I cannot afford the up front cost of the Si570's. What I have in mind is offering three or four folks out there another $20 discount to pre-order. The only downside is that these pre-payers will have to wait the lead time for the devices which is four to six weeks but they will know that they are supporting the group and getting a discounted kit.

73's

Alan - W6ARH

239. Re: [UHFSDR] Full Kit Status

Yahoo group: UHFSDR
Date: 2011-07-18 23:39:04 UTC
From: Tony
Topic: 238 Message: 239

Alan,

So what I think you are saying is with a prepayment of $170, I can get a kit in several weeks. Do I send a payment to you via Paypal?

Best regards,

Tony

On Mon, Jul 18, 2011 at 5:36 PM, The Silver Fox <alan.r.hill@gmail.com>wrote:

> **
>
>
> I am close to being able to offer more full kits. The good news is that if
> I can manage the discount price for quantity of the Si570’s I will be able
> to lower the price to $190 US and $196 DX. The bad news is that I cannot
> afford the up front cost of the Si570’s. What I have in mind is offering
> three or four folks out there another $20 discount to pre-order. The only
> downside is that these pre-payers will have to wait the lead time for the
> devices which is four to six weeks but they will know that they are
> supporting the group and getting a discounted kit.****
>
> ** **
>
> 73’s****
>
> Alan – W6ARH****
>
> ** **
>
>
>

240. RE: [UHFSDR] Full Kit Status

Yahoo group: UHFSDR
Date: 2011-07-19 00:07:26 UTC
From: The Silver Fox
Topic: 238 Message: 240

Yes. That is true. To make folks feel better, I will not spend the money until I am able to purchase the si570s and I will refund it if something prevents me from pursuing the purchase. Paypal money to alan.r.hill@... and remember to include your shipping address.

73's

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Tony
Sent: Monday, July 18, 2011 4:39 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Full Kit Status

Alan,

So what I think you are saying is with a prepayment of $170, I can get a kit in several weeks. Do I send a payment to you via Paypal?

Best regards,

Tony

On Mon, Jul 18, 2011 at 5:36 PM, The Silver Fox <alan.r.hill@...> wrote:

I am close to being able to offer more full kits. The good news is that if I can manage the discount price for quantity of the Si570's I will be able to lower the price to $190 US and $196 DX. The bad news is that I cannot afford the up front cost of the Si570's. What I have in mind is offering three or four folks out there another $20 discount to pre-order. The only downside is that these pre-payers will have to wait the lead time for the devices which is four to six weeks but they will know that they are supporting the group and getting a discounted kit.

73's

Alan - W6ARH

241. Si514

Yahoo group: UHFSDR
Date: 2011-07-19 04:30:55 UTC
From: dave
Topic: 241 Message: 241

I just took a look at the Si514. It is specified from 100 KHz to 250 MHz.
It is a slightly different pinout from the Si570. It is in a six pin package(no small end pins). Pins 1 and 2 are the I2C inputs. The other pins are the same as the Si570. For operation from 50 KHz to 125 MHz, it should be possible to use the Si514 with minor changes to connect the I2C pins. A different mixer would possibly have to be used as the ADE-2ASK is only specified down to 1 MHz. Mini-Circuits does have others in the same package.
The price of a Si570 for .1 to 250 MHz is $12.95 from SiLabs. The one downside is the phase noise is higher at 1 pS vs .3 pS for the Si570.

Dave - WB6DHW
<http://wb6dhw.com>

242. RE: [UHFSDR] Si514

Yahoo group: UHFSDR
Date: 2011-07-19 05:08:37 UTC
From: MIKE DURKIN
Topic: 241 Message: 242

Did you mean 12.95 for a Si514 .. what does 1ps mean as far as noise and week signals?

Isn't 1mhz low enuff ... its the high end im looking for ... even mabey adding a second mixer like the foxtango(ok don't remember correctly but its damn spendy) ... before the lna ... it's late at night and i should be sleeping right now ...

To: UHFSDR@yahoogroups.com
From: dave@wb6dhw.com
Date: Mon, 18 Jul 2011 21:30:55 -0700
Subject: [UHFSDR] Si514

I just took a look at the Si514. It is specified from 100 KHz to 250 MHz.

It is a slightly different pinout from the Si570. It is in a six pin package(no

small end pins). Pins 1 and 2 are the I2C inputs. The other pins are the same

as the Si570. For operation from 50 KHz to 125 MHz, it should be possible to

use the Si514 with minor changes to connect the I2C pins. A different mixer

would possibly have to be used as the ADE-2ASK is only specified down to 1 MHz.

Mini-Circuits does have others in the same package.

The price of a Si570 for .1 to 250 MHz is $12.95 from SiLabs. The one

downside is the phase noise is higher at 1 pS vs .3 pS for the Si570.

Dave - WB6DHW

<http://wb6dhw.com>

243. Re: [UHFSDR] Si514

Yahoo group: UHFSDR
Date: 2011-07-19 05:38:35 UTC
From: dave
Topic: 241 Message: 243

Mike:
I just compared the Si514 and the Si570 datasheets. There is a 13 dB difference in phase noise. That would of course affect weak signal reception. But, at low frequency, I think the ambient noise is dominant, so you wouldn't see the difference(I haven't actually listened below the broadcast band). You could always put a mixer and oscillator ahead of the UHFSDR for low freq. operation. The 1 MHz on the ADE-2ASK is the LOW end.
I have just been looking at the next UHFSDR and possible options and ways to reduce the cost.

Dave - WB6DHW
<http://wb6dhw.com>

On 7/18/2011 10:08 PM, MIKE DURKIN wrote:
>
> Did you mean 12.95 for a Si514 .. what does 1ps mean as far as noise and week
> signals?
>
> Isn't 1mhz low enuff ... its the high end im looking for ... even mabey adding
> a second mixer like the foxtango(ok don't remember correctly but its damn
> spendy) ... before the lna ... it's late at night and i should be sleeping
> right now ...
>
> ---
> To: UHFSDR@yahoogroups.com
> From: dave@...
> Date: Mon, 18 Jul 2011 21:30:55 -0700
> Subject: [UHFSDR] Si514
>
> I just took a look at the Si514. It is specified from 100 KHz to 250 MHz.
> It is a slightly different pinout from the Si570. It is in a six pin package(no
> small end pins). Pins 1 and 2 are the I2C inputs. The other pins are the same
> as the Si570. For operation from 50 KHz to 125 MHz, it should be possible to
> use the Si514 with minor changes to connect the I2C pins. A different mixer
> would possibly have to be used as the ADE-2ASK is only specified down to 1 MHz.
> Mini-Circuits does have others in the same package.
> The price of a Si570 for .1 to 250 MHz is $12.95 from SiLabs. The one
> downside is the phase noise is higher at 1 pS vs .3 pS for the Si570.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
>

244. RE: [UHFSDR] Si514

Yahoo group: UHFSDR
Date: 2011-07-19 14:48:21 UTC
From: The Silver Fox
Topic: 241 Message: 244

I have been having circular discussions with Silabs for purchase of the Si570. The last batch they sent me cost roughly $58 per chip. They are now indicating $98 a chip. If I buy 25 they will lower the cost to $75. This is not their best chip which is even more expensive. I don't see how their prices are justified if there is a comparable chip for cheap.

73's

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of dave
Sent: Monday, July 18, 2011 10:39 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Si514

Mike:
I just compared the Si514 and the Si570 datasheets. There is a 13 dB difference in phase noise. That would of course affect weak signal reception. But, at low frequency, I think the ambient noise is dominant, so you wouldn't see the difference(I haven't actually listened below the broadcast band).
You could always put a mixer and oscillator ahead of the UHFSDR for low freq. operation. The 1 MHz on the ADE-2ASK is the LOW end.
I have just been looking at the next UHFSDR and possible options and ways to reduce the cost.

Dave - WB6DHW
<http://wb6dhw.com> <http://wb6dhw.com>

On 7/18/2011 10:08 PM, MIKE DURKIN wrote:

Did you mean 12.95 for a Si514 .. what does 1ps mean as far as noise and week signals?

Isn't 1mhz low enuff ... its the high end im looking for ... even mabey adding a second mixer like the foxtango(ok don't remember correctly but its damn spendy) ... before the lna ... it's late at night and i should be sleeping right now ...

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Mon, 18 Jul 2011 21:30:55 -0700
Subject: [UHFSDR] Si514

I just took a look at the Si514. It is specified from 100 KHz to 250 MHz.
It is a slightly different pinout from the Si570. It is in a six pin
package(no
small end pins). Pins 1 and 2 are the I2C inputs. The other pins are the
same
as the Si570. For operation from 50 KHz to 125 MHz, it should be possible to

use the Si514 with minor changes to connect the I2C pins. A different mixer
would possibly have to be used as the ADE-2ASK is only specified down to 1
MHz.
Mini-Circuits does have others in the same package.
The price of a Si570 for .1 to 250 MHz is $12.95 from SiLabs. The one
downside is the phase noise is higher at 1 pS vs .3 pS for the Si570.

Dave - WB6DHW
<http://wb6dhw.com>

245. Re: [UHFSDR] Si514

Yahoo group: UHFSDR
Date: 2011-07-19 15:02:50 UTC
From: Marcus D. Leech
Topic: 241 Message: 245

On 19/07/2011 10:48 AM, The Silver Fox wrote:
>
> I have been having circular discussions with Silabs for purchase of
> the Si570. The last batch they sent me cost roughly $58 per chip.
> They are now indicating $98 a chip. If I buy 25 they will lower the
> cost to $75. This is not their best chip which is even more
> expensive. I don't see how their prices are justified if there is a
> comparable chip for cheap.
>
> 73's
>
> Alan -- W6ARH
>
>
*Maybe time for a re-design?

The ADF4350/ADF4351 are nice chips, and (ADF4350) are available from
Digi-key right now for $22.50 apiece. Once the ADF4351
is in production, it'll produce outputs from 35MHz to 4.4GHz, which
for a 2XLO design like the UHFSDR, gives you 17.5MHz to 2.2GHz
coverage, depending on how wide-band your mixer is. The ADF4350
(pin-compatible older cousin of the ADF4351) covers 137.5MHz to
4.4GHz.

*

246. Re: [UHFSDR] Si514

Yahoo group: UHFSDR
Date: 2011-07-19 18:09:09 UTC
From: dave
Topic: 241 Message: 246

I have been looking at a redesign. I just took a quick look at the ADF4350 datasheet. You need to add an external reference oscillator. You also need to have external loop components to form the PLL. Also, at VHF, the phase noise does not look to be very low. That's a initial quick look at the data sheet. The other Silicon Labs "any frequency" devices - the Si514 and the Si598 are lower spec than the Si570. The Si514 has 3 grades with a max freq. of 250 MHz and 13 dB more phase noise than the Si570. But, it is specified to go down to 100 KHz. The Si598 has a max frequency of 525 MHz and phase noise just slightly higher. If 70 cm is not needed, the 525 MHz Si598 is available for $16.98. You could possibly add another mixer with a circuit similar to the VHF Softrocks(except using DBM's) and extend the frequency. The operating frequency would then be 1.5 times the Si598 frequency.

Dave - WB6DHW
<http://wb6dhw.com>

On 7/19/2011 8:02 AM, Marcus D. Leech wrote:
>
> On 19/07/2011 10:48 AM, The Silver Fox wrote:
>
>> I have been having circular discussions with Silabs for purchase of the
>> Si570. The last batch they sent me cost roughly $58 per chip. They are now
>> indicating $98 a chip. If I buy 25 they will lower the cost to $75. This is
>> not their best chip which is even more expensive. I don't see how their
>> prices are justified if there is a comparable chip for cheap.
>>
>> 73's
>>
>> Alan -- W6ARH
>>
>>
> *Maybe time for a re-design?
>
> The ADF4350/ADF4351 are nice chips, and (ADF4350) are available from Digi-key
> right now for $22.50 apiece. Once the ADF4351
> is in production, it'll produce outputs from 35MHz to 4.4GHz, which for a
> 2XLO design like the UHFSDR, gives you 17.5MHz to 2.2GHz
> coverage, depending on how wide-band your mixer is. The ADF4350
> (pin-compatible older cousin of the ADF4351) covers 137.5MHz to
> 4.4GHz.
>
>
> *
>
>

>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 9.0.901 / Virus Database: 271.1.1/3774 - Release Date: 07/18/11 23:34:00
>

247. Re: [UHFSDR] Si514

Yahoo group: UHFSDR
Date: 2011-07-19 18:19:45 UTC
From: Marcus D. Leech
Topic: 241 Message: 247

On 19/07/2011 2:09 PM, dave wrote:
>
> I have been looking at a redesign. I just took a quick look at the
> ADF4350 datasheet. You need to add an external reference oscillator.
> You also need to have external loop components to form the PLL. Also,
> at VHF, the phase noise does not look to be very low. That's a
> initial quick look at the data sheet.
>
A 20ppm TCXO for a reference is pretty cheap ($4.00), and the external
loop components are quite modest. I've used a product
based on this synthesizer for SDR, and it seems to be just fine for
my applications, and what others are using it for, even at VHF.

> The other Silicon Labs "any frequency" devices - the Si514 and the
> Si598 are lower spec than the Si570. The Si514 has 3 grades with a
> max freq. of 250 MHz and 13 dB more phase noise than the Si570. But,
> it is specified to go down to 100 KHz. The Si598 has a max frequency
> of 525 MHz and phase noise just slightly higher. If 70 cm is not
> needed, the 525 MHz Si598 is available for $16.98. You could possibly
> add another mixer with a circuit similar to the VHF Softrocks(except
> using DBM's) and extend the frequency. The operating frequency would
> then be 1.5 times the Si598 frequency.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>

248. Re: [UHFSDR] Si514

Yahoo group: UHFSDR
Date: 2011-07-19 18:31:53 UTC
From: Marcus D. Leech
Topic: 241 Message: 248

On 19/07/2011 2:09 PM, dave wrote:
>
> I have been looking at a redesign. I just took a quick look at the
> ADF4350 datasheet. You need to add an external reference oscillator.
> You also need to have external loop components to form the PLL. Also,
> at VHF, the phase noise does not look to be very low. That's a
> initial quick look at the data sheet.
> The other Silicon Labs "any frequency" devices - the Si514 and the
> Si598 are lower spec than the Si570. The Si514 has 3 grades with a
> max freq. of 250 MHz and 13 dB more phase noise than the Si570. But,
> it is specified to go down to 100 KHz. The Si598 has a max frequency
> of 525 MHz and phase noise just slightly higher. If 70 cm is not
> needed, the 525 MHz Si598 is available for $16.98. You could possibly
> add another mixer with a circuit similar to the VHF Softrocks(except
> using DBM's) and extend the frequency. The operating frequency would
> then be 1.5 times the Si598 frequency.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 7/19/2011 8:02 AM, Marcus D. Leech wrote:
>
>
Actually, ADI claims -155dBc/Hz phase noise at 137.5MHz output at 1MHz
offset, which probably means that the "close in" phase noise
is no worse than -85dBc/Hz or so. Which isn't "stunning" but it's
perfectly workable even for narrowband stuff.

249. Assembly service

Yahoo group: UHFSDR
Date: 2011-07-20 02:51:59 UTC
From: dave
Topic: 249 Message: 249

I just got an email from Chris Waldrup. He has assembled some of my boards in the past for people and is now again available to assemble boards. His work is very professional(he was a professional board tech). For those that have asked for assembled boards, contact Chris Waldrup at
<kd4pbj@...>

We can arrange to have the board and parts sent to him and he can send the assembled board to you. That saves one shipment charge.

Dave - WB6DHW
<http://wb6dhw.com>

250. MPLPF

Yahoo group: UHFSDR
Date: 2011-07-20 04:14:53 UTC
From: dave
Topic: 250 Message: 250

I am now offering prototype boards(I have 12 left) of my 100W Low Pass Filter Board. The board is 3.0" by 7.2" and will hold seven 5 pole low pass filters. Extra holes and pads are provided to use paralled capacitances at each position. The filters can be either Elliptic or standard low pass. Relays are used to switch the filters into or out of the circuit. Control can be either manual or via I2C. I also plan in the near future to offer a complete kit for approx $70 containing all parts except connectors and case. The toroids are T50-2, T50-6, and T50-10. All filter caps are 500V silver micas.
Wolfgang Kinkeldei has built a manually controlled board and has provided a set of tested filter designs. My schematic does not show the 30M filter and the 20M is a copy of the FT-857 design rather than Wolfgangs to provide for a 160 meter filter. The schematic, a scanned image of the board, and a BOM are available at
<http://wb6dhw.com/Under_Development.html>

Dave - WB6DHW
<http://wb6dhw.com>

251. Individual Digi-Key order

Yahoo group: UHFSDR
Date: 2011-07-24 22:15:15 UTC
From: nwplouff
Topic: 251 Message: 251

Back on July 13, Dave WB6DHW said that ordering parts from Digi-Key cost $35 per UHFSDR board. That is, for the parts not included in the mini-kit. I just ordered from his BOM at a cost of $53 plus tax and shipping. Some of this is the price break for buying the entire BOM in quantity vs. just enough for one board. I'd say at least $10 of the difference is because most of the surface mount resistors and capacitors have a minimum order quantity of 10, though needing only one or two on the board.

I did not buy the SMA connectors. I still need to buy the ferrite bead and the FST3257 multiplexer IC from Mouser. The last two items add less than a dollar to the cost.

This suggests to me that a club or group buy is better for keeping parts costs down and avoiding leftovers.

I'm not complaining. I'd do it this way again. Just wanted to throw a reality check out to the group, though.

Also -- from Dave's BOM I had to make the following changes:

1000 pf cap - Panasonic part is obsolete, substituted DK 490-1622-1-ND

DK part no. for 0.1 uf is 399-1168-1-ND

DK part no. for 560 nh inductor is 553-1047-1-ND

130 ohm resistor - substituted DK RMCF0805FT130RCT-ND

DK part no. for CDSU101A diode is 641-1002-1-ND

Correct part no. for stereo jack is CP1-3525N-ND -- that's a "one" not an "eye."

Wes AC8JF

252. RE: [UHFSDR] Individual Digi-Key order

Yahoo group: UHFSDR
Date: 2011-07-25 01:28:58 UTC
From: The Silver Fox
Topic: 251 Message: 252

So add all the costs together with a free or $98 Si570 and see if you can deliver kits for cheap.

73's

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of nwplouff
Sent: Sunday, July 24, 2011 3:15 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Individual Digi-Key order

Back on July 13, Dave WB6DHW said that ordering parts from Digi-Key cost $35 per UHFSDR board. That is, for the parts not included in the mini-kit. I just ordered from his BOM at a cost of $53 plus tax and shipping. Some of this is the price break for buying the entire BOM in quantity vs. just enough for one board. I'd say at least $10 of the difference is because most of the surface mount resistors and capacitors have a minimum order quantity of 10, though needing only one or two on the board.

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DK part no. for CDSU101A diode is 641-1002-1-ND

Correct part no. for stereo jack is CP1-3525N-ND -- that's a "one" not an "eye."

Wes AC8JF

253. RE: [UHFSDR] Individual Digi-Key order

Yahoo group: UHFSDR
Date: 2011-07-25 01:29:57 UTC
From: The Silver Fox
Topic: 251 Message: 253

P.S. I don't believe that you can get all of the parts needed for a complete kit from Digikey.

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of nwplouff
Sent: Sunday, July 24, 2011 3:15 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Individual Digi-Key order

Back on July 13, Dave WB6DHW said that ordering parts from Digi-Key cost $35 per UHFSDR board. That is, for the parts not included in the mini-kit. I just ordered from his BOM at a cost of $53 plus tax and shipping. Some of this is the price break for buying the entire BOM in quantity vs. just enough for one board. I'd say at least $10 of the difference is because most of the surface mount resistors and capacitors have a minimum order quantity of 10, though needing only one or two on the board.

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DK part no. for CDSU101A diode is 641-1002-1-ND

Correct part no. for stereo jack is CP1-3525N-ND -- that's a "one" not an "eye."

Wes AC8JF

254. Strangeness with U2/U7

Yahoo group: UHFSDR
Date: 2011-07-25 03:45:54 UTC
From: priddix
Topic: 254 Message: 254

The packet was marked HMC544 and the instructions say jumper H5-1 to H5-2, but I got no connection through the pins specified and it looked like U2 was faulty.

With AS157's and AS169's on hand I changed both to AS157's and jumpered H5-2 to H5-3, same problem - no RX signals.
As a SWAG I decided to jumper H5-1 and H5-2 and bingo, I'm receiving off-air signals. Pity I didn't try that before replacing U2 and U7.

On my first UHFSDR from Art going back quite a while, they are AS157's and H5-2 to H5-3 has the jumper.

It's as though the part has undergone a change in recent batches.
Has anyone else encountered this?
73 ... Sid.

255. RE: [UHFSDR] Strangeness with U2/U7

Yahoo group: UHFSDR
Date: 2011-07-25 03:58:37 UTC
From: MIKE DURKIN
Topic: 254 Message: 255

mabey .. or i just misread the instructions ... for jumper / connector H5

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: sboyce@...
Date: Mon, 25 Jul 2011 03:45:54 +0000
Subject: [UHFSDR] Strangeness with U2/U7

The packet was marked HMC544 and the instructions say jumper H5-1 to H5-2, but I got no connection through the pins specified and it looked like U2 was faulty.

With AS157's and AS169's on hand I changed both to AS157's and jumpered H5-2 to H5-3, same problem - no RX signals.

As a SWAG I decided to jumper H5-1 and H5-2 and bingo, I'm receiving off-air signals. Pity I didn't try that before replacing U2 and U7.

On my first UHFSDR from Art going back quite a while, they are AS157's and H5-2 to H5-3 has the jumper.

It's as though the part has undergone a change in recent batches.

Has anyone else encountered this?

73 ... Sid.

256. (no subject)

Yahoo group: UHFSDR
Date: 2011-07-25 04:00:33 UTC
From: MIKE DURKIN
Topic: 256 Message: 256

Is there a measurement for the mounting holes - centre to centre ? for the SDR2GO and UHFSDR ?

Mike KC7NOA

257. Re: [UHFSDR] Individual Digi-Key order

Yahoo group: UHFSDR
Date: 2011-07-25 04:39:11 UTC
From: dave
Topic: 251 Message: 257

Did you order fro the BOM that is on my webpage or from the public BOM on Digikey (BOM # 31700)? I just created an order from the DigiKey BOM and all parts were available. The total came to 31.13. Should be 44 different part numbers. Looks like I need to check the BOM on my site and update it. I changed some of the parts for the DigiKey public BOM to get away from the min 10 orders as much as possible. Note also that the public BOM at Digikey does not include parts that are in the minikit.

Dave - WB6DHW
<http://wb6dhw.com>

On 7/24/2011 3:15 PM, nwplouff wrote:
>
> Back on July 13, Dave WB6DHW said that ordering parts from Digi-Key cost $35
> per UHFSDR board. That is, for the parts not included in the mini-kit. I just
> ordered from his BOM at a cost of $53 plus tax and shipping. Some of this is
> the price break for buying the entire BOM in quantity vs. just enough for one
> board. I'd say at least $10 of the difference is because most of the surface
> mount resistors and capacitors have a minimum order quantity of 10, though
> needing only one or two on the board.
>
> I did not buy the SMA connectors. I still need to buy the ferrite bead and the
> FST3257 multiplexer IC from Mouser. The last two items add less than a dollar
> to the cost.
>
> This suggests to me that a club or group buy is better for keeping parts costs
> down and avoiding leftovers.
>
> I'm not complaining. I'd do it this way again. Just wanted to throw a reality
> check out to the group, though.
>
> Also -- from Dave's BOM I had to make the following changes:
>
> 1000 pf cap - Panasonic part is obsolete, substituted DK 490-1622-1-ND
>
> DK part no. for 0.1 uf is 399-1168-1-ND
>
> DK part no. for 560 nh inductor is 553-1047-1-ND
>
> 130 ohm resistor - substituted DK RMCF0805FT130RCT-ND
>
> DK part no. for CDSU101A diode is 641-1002-1-ND
>
> Correct part no. for stereo jack is CP1-3525N-ND -- that's a "one" not an "eye."
>

> Wes AC8JF
>
>
>
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 9.0.901 / Virus Database: 271.1.1/3785 - Release Date: 07/23/11 23:33:00
>

258. Re: Individual Digi-Key order

Yahoo group: UHFSDR
Date: 2011-07-25 15:49:23 UTC
From: nwplouff
Topic: 251 Message: 258

There's a public BOM at Digi-Key? I did not know that. I ordered from the BOM in the files section of this Yahoo group. Ah, well, live and learn...

As mentioned, still had to order two items from Mouser.

By the way, in no way was my posting intended to disparage Alan, the Silver Fox. I think he's doing a great service to UHFSDR builders. After wading through the details of making a Digi-Key order, I'd say he's not charging nearly enough for his time.

Wes AC8JF

--- In UHFSDR@yahoogroups.com, dave <dave@...> wrote:
>
> Did you order from the BOM that is on my webpage or from the public BOM on
> Digikey (BOM # 31700)? I just created an order from the DigiKey BOM and all
> parts were available. The total came to 31.13. Should be 44 different part
> numbers.

259. Re: [UHFSDR] Re: Individual Digi-Key order

Yahoo group: UHFSDR
Date: 2011-07-26 09:52:38 UTC
From: Simon Eatough
Topic: 251 Message: 259

Hi there
Just wondering how to access that public bom on digikey.
Thanks

Simon
ZL2BRG

On Tue, Jul 26, 2011 at 3:49 AM, nwplouff <nwplouff@...> wrote:

> **
>
>
>
>
> There's a public BOM at Digi-Key? I did not know that. I ordered from the
> BOM in the files section of this Yahoo group. Ah, well, live and learn...
>
> As mentioned, still had to order two items from Mouser.
>
> By the way, in no way was my posting intended to disparage Alan, the Silver
> Fox. I think he's doing a great service to UHFSDR builders. After wading
> through the details of making a Digi-Key order, I'd say he's not charging
> nearly enough for his time.
>
> Wes AC8JF
>
> --- In UHFSDR@yahoogroups.com, dave <dave@...> wrote:
> >
> > Did you order from the BOM that is on my webpage or from the public BOM
> on
> > Digikey (BOM # 31700)? I just created an order from the DigiKey BOM and
> all
> > parts were available. The total came to 31.13. Should be 44 different
> part
> > numbers.
>
>
>

260. Re: [UHFSDR] Re: Individual Digi-Key order

Yahoo group: UHFSDR
Date: 2011-07-26 22:50:03 UTC
From: dave
Topic: 251 Message: 260

I am not sure. It is BOM # 31700 and is under Bluebird Originals.
Otherwise, you can upload the spreadsheet available on my for_sale page.

Dave - WB6DHW
<http://wb6dhw.com>

On 7/26/2011 2:52 AM, Simon Eatough wrote:
>
> Hi there
>
> Just wondering how to access that public bom on digikey.
> Thanks
>
> Simon
> ZL2BRG
>
> On Tue, Jul 26, 2011 at 3:49 AM, nwplouff <nwplouff@...
> <mailto:nwplouff@...>> wrote:
>
>
>
> There's a public BOM at Digi-Key? I did not know that. I ordered from the
> BOM in the files section of this Yahoo group. Ah, well, live and learn...
>
> As mentioned, still had to order two items from Mouser.
>
> By the way, in no way was my posting intended to disparage Alan, the
> Silver Fox. I think he's doing a great service to UHFSDR builders. After
> wading through the details of making a Digi-Key order, I'd say he's not
> charging nearly enough for his time.
>
> Wes AC8JF
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, dave
> <dave@...> wrote:
> >
> > Did you order from the BOM that is on my webpage or from the public BOM on
>
> > Digikey (BOM # 31700)? I just created an order from the DigiKey BOM and all
> > parts were available. The total came to 31.13. Should be 44 different part
> > numbers.
>
>
>
>

>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 9.0.901 / Virus Database: 271.1.1/3789 - Release Date: 07/25/11 23:35:00
>

261. Re: Full Kit Status

Yahoo group: UHFSDR
Date: 2011-08-03 06:47:17 UTC
From: sv1eia
Topic: 238 Message: 261

Hi Alan, Dave,

Is there an estimated date of delivery for the complete kits?
Are you moving into a 'group-buy' direction or are you willing to have stock of the kits for future purchases?

73,
Christos SV1EIA

--- In UHFSDR@yahoogroups.com, "The Silver Fox" <alan.r.hill@...> wrote:
>
> Yes. That is true. To make folks feel better, I will not spend the money
> until I am able to purchase the si570s and I will refund it if something
> prevents me from pursuing the purchase. Paypal money to
> alan.r.hill@... and remember to include your shipping address.
>
> 73's
>
> Alan - W6ARH
>
>
>
> From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
> Tony
> Sent: Monday, July 18, 2011 4:39 PM
> To: UHFSDR@yahoogroups.com
> Subject: Re: [UHFSDR] Full Kit Status
>
>
>
>
>
> Alan,
>
>
>
> So what I think you are saying is with a prepayment of $170, I can get a kit
> in several weeks. Do I send a payment to you via Paypal?
>
>
>
> Best regards,
>
>
>
> Tony

>
> On Mon, Jul 18, 2011 at 5:36 PM, The Silver Fox <alan.r.hill@...>
> wrote:
>
>
>
> I am close to being able to offer more full kits. The good news is that if
> I can manage the discount price for quantity of the Si570's I will be able
> to lower the price to $190 US and $196 DX. The bad news is that I cannot
> afford the up front cost of the Si570's. What I have in mind is offering
> three or four folks out there another $20 discount to pre-order. The only
> downside is that these pre-payers will have to wait the lead time for the
> devices which is four to six weeks but they will know that they are
> supporting the group and getting a discounted kit.
>
>
>
> 73's
>
> Alan - W6ARH
>

262. USB2SDR & UHFSDR

Yahoo group: UHFSDR
Date: 2011-08-03 07:17:43 UTC
From: sv1eia
Topic: 262 Message: 262

Hi Dave,

I guess you remember that I was one of the guys that rushed in when you first announced the UHFSDR a few years back to get a kit from Art those days.

One of the very first kits given, yet left in the drawer for so long.
That was until recently when I started to offer the USB2SDR, then I received quite a few messages from USB2SDR users that they have the UHFSDR and want to know how to make the connections for it.

So my interest has been renewed on this and got involved actively in the integration.

So far it seems that USB2SDR and UHFSDR is a very well cooperating couple with control connections of I2C and Tx/GPIO being straighforward.
The other thing that remained to do was the PowerSDR-IQ modifications for it, so I did that too in the latest 1.19.3.20 (USB2SDR) version and got divider by two and a working extended bands setup 2m/4m/1.25m/70cm.

So now, I'm a happy user having USB2SDR and UHFSDR operating Rx and Tx from 1.7MHz to 470MHz and it is FUN INDEED !!

I do feel sorry that I did not have it built when I first received the kit some years back but at least now its really nice to have it working here and I do like it very much. :-)

One of the users, Serge RV3APM got me involved again in this so I have to thank him, I was a bit reluctant at first since my hands are full nowadays with the USB2SDR but it was certainly worth it
-> http://www.lampradio.net/USB2SDR.html

Dave, I think there is something that will bring UHFSDR to another level.
That something is the addition of a UHFSDR BPF for its receiver.
If you design a BPF with enough banks in octaves to cover the whole extended range and do that with I2C control, then UHFSDR will make a invaluable addition to any shack.
There are not many general coverage, up to UHF, transceivers (SDR capable) and I know that we are very near in having this right NOW !

So I'm just adding my bit here for any future directions that you have in mind.

73,
Christos SV1EIA

http://www.wb5rvz.com/usb2sdr/index.htm

263. Re: [UHFSDR] USB2SDR & UHFSDR

Yahoo group: UHFSDR
Date: 2011-08-03 08:30:43 UTC
From: Dave
Topic: 262 Message: 263

Christos:
I have a BPF design for our club project that covers160 meters through 70 cm(except 220 MHz and 70 MHz(not a USA band)). Right now it is part of a larger board with some other functions. But, I do plan on putting the PBF's on a separate board. They are I2C controlled using a PCF8574A and CBT3251's. But, I think I should think about allowing for more than 8 filters.
I also have a 100Wlow pass filter board(see my under development page) that has filters for 160M thru 6 meters-seven filters), also controlled by a PCF8574. Both boards allow board level selection of I2C addresses with jumpers. I also have prototype 100W amplifier boards(a pair of RD100 transistors plus a driver and pre-driver) that I hope will work with the UHFSDR as well. It has forward and reflected power and temperature measurement capability. I have not yet assembled a board.
In addition, I plan on designing a control board, likely with a PIC with lots of memory, USB, I2C. Probably a 40 or 44 pin device. Will control an LCD display and read a rotary encoder plus pushbuttons.

On 8/3/2011 12:17 AM, sv1eia wrote:
>
> Hi Dave,
>
> I guess you remember that I was one of the guys that rushed in when
> you first announced the UHFSDR a few years back to get a kit from Art
> those days.
>
> One of the very first kits given, yet left in the drawer for so long.
> That was until recently when I started to offer the USB2SDR, then I
> received quite a few messages from USB2SDR users that they have the
> UHFSDR and want to know how to make the connections for it.
>
> So my interest has been renewed on this and got involved actively in
> the integration.
>
> So far it seems that USB2SDR and UHFSDR is a very well cooperating
> couple with control connections of I2C and Tx/GPIO being straighforward.
> The other thing that remained to do was the PowerSDR-IQ modifications
> for it, so I did that too in the latest 1.19.3.20 (USB2SDR) version
> and got divider by two and a working extended bands setup
> 2m/4m/1.25m/70cm.
>
> So now, I'm a happy user having USB2SDR and UHFSDR operating Rx and Tx
> from 1.7MHz to 470MHz and it is FUN INDEED !!
>
> I do feel sorry that I did not have it built when I first received the

> kit some years back but at least now its really nice to have it
> working here and I do like it very much. :-)
>
> One of the users, Serge RV3APM got me involved again in this so I have
> to thank him, I was a bit reluctant at first since my hands are full
> nowadays with the USB2SDR but it was certainly worth it
> -> http://www.lampradio.net/USB2SDR.html
>
> Dave, I think there is something that will bring UHFSDR to another level.
> That something is the addition of a UHFSDR BPF for its receiver.
> If you design a BPF with enough banks in octaves to cover the whole
> extended range and do that with I2C control, then UHFSDR will make a
> invaluable addition to any shack.
> There are not many general coverage, up to UHF, transceivers (SDR
> capable) and I know that we are very near in having this right NOW !
>
> So I'm just adding my bit here for any future directions that you have
> in mind.
>
> 73,
> Christos SV1EIA
>
> http://www.wb5rvz.com/usb2sdr/index.htm
>
>

264. Re: USB2SDR & UHFSDR

Yahoo group: UHFSDR
Date: 2011-08-03 09:25:50 UTC
From: sv1eia
Topic: 262 Message: 264

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> Christos:
> I have a BPF design for our club project that covers160 meters
> through 70 cm(except 220 MHz and 70 MHz(not a USA band)). Right now it
> is part of a larger board with some other functions. But, I do plan on
> putting the PBF's on a separate board. They are I2C controlled using a
> PCF8574A and CBT3251's. But, I think I should think about allowing for
> more than 8 filters.

Yes, thats more like it.
IMHO this is the component thats needed now.
The addition of 4m and 1.25m whould be good though.
I also think that more than 8 banks are needed.

Do you have any plan of when you can move on with it and have something out?

> I also have a 100Wlow pass filter board(see my under development
> page) that has filters for 160M thru 6 meters-seven filters), also
> controlled by a PCF8574. Both boards allow board level selection of I2C
> addresses with jumpers. I also have prototype 100W amplifier boards(a
> pair of RD100 transistors plus a driver and pre-driver) that I hope will
> work with the UHFSDR as well. It has forward and reflected power and
> temperature measurement capability. I have not yet assembled a board.
> In addition, I plan on designing a control board, likely with a PIC
> with lots of memory, USB, I2C. Probably a 40 or 44 pin device. Will
> control an LCD display and read a rotary encoder plus pushbuttons.
>
> On 8/3/2011 12:17 AM, sv1eia wrote:
> >
> > Hi Dave,
> >
> > I guess you remember that I was one of the guys that rushed in when
> > you first announced the UHFSDR a few years back to get a kit from Art
> > those days.
> >
> > One of the very first kits given, yet left in the drawer for so long.
> > That was until recently when I started to offer the USB2SDR, then I
> > received quite a few messages from USB2SDR users that they have the
> > UHFSDR and want to know how to make the connections for it.
> >
> > So my interest has been renewed on this and got involved actively in
> > the integration.
> >
> > So far it seems that USB2SDR and UHFSDR is a very well cooperating
> > couple with control connections of I2C and Tx/GPIO being straighforward.

> > The other thing that remained to do was the PowerSDR-IQ modifications
> > for it, so I did that too in the latest 1.19.3.20 (USB2SDR) version
> > and got divider by two and a working extended bands setup
> > 2m/4m/1.25m/70cm.
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> > So now, I'm a happy user having USB2SDR and UHFSDR operating Rx and Tx
> > from 1.7MHz to 470MHz and it is FUN INDEED !!
> >
> > I do feel sorry that I did not have it built when I first received the
> > kit some years back but at least now its really nice to have it
> > working here and I do like it very much. :-)
> >
> > One of the users, Serge RV3APM got me involved again in this so I have
> > to thank him, I was a bit reluctant at first since my hands are full
> > nowadays with the USB2SDR but it was certainly worth it
> > -> http://www.lampradio.net/USB2SDR.html
> >
> > Dave, I think there is something that will bring UHFSDR to another level.
> > That something is the addition of a UHFSDR BPF for its receiver.
> > If you design a BPF with enough banks in octaves to cover the whole
> > extended range and do that with I2C control, then UHFSDR will make a
> > invaluable addition to any shack.
> > There are not many general coverage, up to UHF, transceivers (SDR
> > capable) and I know that we are very near in having this right NOW !
> >
> > So I'm just adding my bit here for any future directions that you have
> > in mind.
> >
> > 73,
> > Christos SV1EIA
> >
> > http://www.wb5rvz.com/usb2sdr/index.htm
> >
> >
>

265. Re: [UHFSDR] USB2SDR & UHFSDR

Yahoo group: UHFSDR
Date: 2011-08-03 12:40:45 UTC
From: Sid Boyce
Topic: 262 Message: 265

Dave,
Your original BPF board seemed to work out quite expensive, especially the SMT inductors. Is there a different approach to the new one and will it still be 7 pole?
73 ... Sid.

On 03/08/11 09:30, Dave wrote:
>
> Christos:
> I have a BPF design for our club project that covers160 meters
> through 70 cm(except 220 MHz and 70 MHz(not a USA band)). Right now
> it is part of a larger board with some other functions. But, I do
> plan on putting the PBF's on a separate board. They are I2C
> controlled using a PCF8574A and CBT3251's. But, I think I should
> think about allowing for more than 8 filters.
> I also have a 100Wlow pass filter board(see my under development
> page) that has filters for 160M thru 6 meters-seven filters), also
> controlled by a PCF8574. Both boards allow board level selection of
> I2C addresses with jumpers. I also have prototype 100W amplifier
> boards(a pair of RD100 transistors plus a driver and pre-driver) that
> I hope will work with the UHFSDR as well. It has forward and
> reflected power and temperature measurement capability. I have not yet
> assembled a board.
> In addition, I plan on designing a control board, likely with a PIC
> with lots of memory, USB, I2C. Probably a 40 or 44 pin device. Will
> control an LCD display and read a rotary encoder plus pushbuttons.
>
> On 8/3/2011 12:17 AM, sv1eia wrote:
>
>> Hi Dave,
>>
>> I guess you remember that I was one of the guys that rushed in when
>> you first announced the UHFSDR a few years back to get a kit from Art
>> those days.
>>
>> One of the very first kits given, yet left in the drawer for so long.
>> That was until recently when I started to offer the USB2SDR, then I
>> received quite a few messages from USB2SDR users that they have the
>> UHFSDR and want to know how to make the connections for it.
>>
>> So my interest has been renewed on this and got involved actively in
>> the integration.
>>
>> So far it seems that USB2SDR and UHFSDR is a very well cooperating
>> couple with control connections of I2C and Tx/GPIO being straighforward.

>> The other thing that remained to do was the PowerSDR-IQ modifications
>> for it, so I did that too in the latest 1.19.3.20 (USB2SDR) version
>> and got divider by two and a working extended bands setup
>> 2m/4m/1.25m/70cm.
>>
>> So now, I'm a happy user having USB2SDR and UHFSDR operating Rx and
>> Tx from 1.7MHz to 470MHz and it is FUN INDEED !!
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>> I do feel sorry that I did not have it built when I first received
>> the kit some years back but at least now its really nice to have it
>> working here and I do like it very much. :-)
>>
>> One of the users, Serge RV3APM got me involved again in this so I
>> have to thank him, I was a bit reluctant at first since my hands are
>> full nowadays with the USB2SDR but it was certainly worth it
>> -> http://www.lampradio.net/USB2SDR.html
>>
>> Dave, I think there is something that will bring UHFSDR to another level.
>> That something is the addition of a UHFSDR BPF for its receiver.
>> If you design a BPF with enough banks in octaves to cover the whole
>> extended range and do that with I2C control, then UHFSDR will make a
>> invaluable addition to any shack.
>> There are not many general coverage, up to UHF, transceivers (SDR
>> capable) and I know that we are very near in having this right NOW !
>>
>> So I'm just adding my bit here for any future directions that you
>> have in mind.
>>
>> 73,
>> Christos SV1EIA
>>
>> http://www.wb5rvz.com/usb2sdr/index.htm
>>
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

266. Re: [UHFSDR] Re: USB2SDR & UHFSDR

Yahoo group: UHFSDR
Date: 2011-08-03 16:43:53 UTC
From: dave
Topic: 262 Message: 266

Christos:
I don't have a time frame yet for the BPF's. One thing you could do is use 2 of my BPF boards. The decoder used does have an enable/disable pin. But it is no I2C controlled(3 binary data lines and the enable).

Dave - WB6DHW
<http://wb6dhw.com>

On 8/3/2011 2:25 AM, sv1eia wrote:
>
>
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Dave
> <dave@...> wrote:
> >
> > Christos:
> > I have a BPF design for our club project that covers160 meters
> > through 70 cm(except 220 MHz and 70 MHz(not a USA band)). Right now it
> > is part of a larger board with some other functions. But, I do plan on
> > putting the PBF's on a separate board. They are I2C controlled using a
> > PCF8574A and CBT3251's. But, I think I should think about allowing for
> > more than 8 filters.
>
> Yes, thats more like it.
> IMHO this is the component thats needed now.
> The addition of 4m and 1.25m whould be good though.
> I also think that more than 8 banks are needed.
>
> Do you have any plan of when you can move on with it and have something out?
>
> > I also have a 100Wlow pass filter board(see my under development
> > page) that has filters for 160M thru 6 meters-seven filters), also
> > controlled by a PCF8574. Both boards allow board level selection of I2C
> > addresses with jumpers. I also have prototype 100W amplifier boards(a
> > pair of RD100 transistors plus a driver and pre-driver) that I hope will
> > work with the UHFSDR as well. It has forward and reflected power and
> > temperature measurement capability. I have not yet assembled a board.
> > In addition, I plan on designing a control board, likely with a PIC
> > with lots of memory, USB, I2C. Probably a 40 or 44 pin device. Will
> > control an LCD display and read a rotary encoder plus pushbuttons.
> >
> > On 8/3/2011 12:17 AM, sv1eia wrote:
>

267. Re: [UHFSDR] USB2SDR & UHFSDR

Yahoo group: UHFSDR
Date: 2011-08-03 17:06:57 UTC
From: dave
Topic: 262 Message: 267

Sid:
Will have to decide on how many poles. The filters for the club project are 5 pole. I could easily use T25 toroids. In fact the current BPF board can be built with T25 toroids, although the number of turns for each has not been worked out. I do plan on something with better Q than the smt inductors. That causes a 4 to 6 dB loss in the filters.

Dave - WB6DHW
<http://wb6dhw.com>

On 8/3/2011 5:40 AM, Sid Boyce wrote:
>
> Dave,
> Your original BPF board seemed to work out quite expensive, especially the SMT
> inductors. Is there a different approach to the new one and will it still be 7
> pole?
> 73 ... Sid.
>
> On 03/08/11 09:30, Dave wrote:
>
>> Christos:
>> I have a BPF design for our club project that covers160 meters through 70
>> cm(except 220 MHz and 70 MHz(not a USA band)). Right now it is part of a
>> larger board with some other functions. But, I do plan on putting the PBF's
>> on a separate board. They are I2C controlled using a PCF8574A and
>> CBT3251's. But, I think I should think about allowing for more than 8 filters.
>> I also have a 100Wlow pass filter board(see my under development page) that
>> has filters for 160M thru 6 meters-seven filters), also controlled by a
>> PCF8574. Both boards allow board level selection of I2C addresses with
>> jumpers. I also have prototype 100W amplifier boards(a pair of RD100
>> transistors plus a driver and pre-driver) that I hope will work with the
>> UHFSDR as well. It has forward and reflected power and temperature
>> measurement capability. I have not yet assembled a board.
>> In addition, I plan on designing a control board, likely with a PIC with
>> lots of memory, USB, I2C. Probably a 40 or 44 pin device. Will control an
>> LCD display and read a rotary encoder plus pushbuttons.
>>
>> On 8/3/2011 12:17 AM, sv1eia wrote:
>>
>>> Hi Dave,
>>>
>>> I guess you remember that I was one of the guys that rushed in when you
>>> first announced the UHFSDR a few years back to get a kit from Art those days.
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>>> One of the very first kits given, yet left in the drawer for so long.

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>>> integration.
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>>> it, so I did that too in the latest 1.19.3.20 (USB2SDR) version and got
>>> divider by two and a working extended bands setup 2m/4m/1.25m/70cm.
>>>
>>> So now, I'm a happy user having USB2SDR and UHFSDR operating Rx and Tx from
>>> 1.7MHz to 470MHz and it is FUN INDEED !!
>>>
>>> I do feel sorry that I did not have it built when I first received the kit
>>> some years back but at least now its really nice to have it working here and
>>> I do like it very much. :-)
>>>
>>> One of the users, Serge RV3APM got me involved again in this so I have to
>>> thank him, I was a bit reluctant at first since my hands are full nowadays
>>> with the USB2SDR but it was certainly worth it
>>> -> http://www.lampradio.net/USB2SDR.html
>>>
>>> Dave, I think there is something that will bring UHFSDR to another level.
>>> That something is the addition of a UHFSDR BPF for its receiver.
>>> If you design a BPF with enough banks in octaves to cover the whole extended
>>> range and do that with I2C control, then UHFSDR will make a invaluable
>>> addition to any shack.
>>> There are not many general coverage, up to UHF, transceivers (SDR capable)
>>> and I know that we are very near in having this right NOW !
>>>
>>> So I'm just adding my bit here for any future directions that you have in mind.
>>>
>>> 73,
>>> Christos SV1EIA
>>>
>>> http://www.wb5rvz.com/usb2sdr/index.htm
>>>
>>
>
>
> --
>

268. RE: [UHFSDR] USB2SDR & UHFSDR

Yahoo group: UHFSDR
Date: 2011-08-03 17:22:08 UTC
From: The Silver Fox
Topic: 262 Message: 268

The description sounds almost the same as the mobokit.

73's

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Sid Boyce
Sent: Wednesday, August 03, 2011 5:41 AM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] USB2SDR & UHFSDR

Dave,
Your original BPF board seemed to work out quite expensive, especially the SMT inductors. Is there a different approach to the new one and will it still be 7 pole?
73 ... Sid.

On 03/08/11 09:30, Dave wrote:

Christos:
I have a BPF design for our club project that covers160 meters through 70 cm(except 220 MHz and 70 MHz(not a USA band)). Right now it is part of a larger board with some other functions. But, I do plan on putting the PBF's on a separate board. They are I2C controlled using a PCF8574A and CBT3251's. But, I think I should think about allowing for more than 8 filters.
I also have a 100Wlow pass filter board(see my under development page) that has filters for 160M thru 6 meters-seven filters), also controlled by a PCF8574. Both boards allow board level selection of I2C addresses with jumpers. I also have prototype 100W amplifier boards(a pair of RD100 transistors plus a driver and pre-driver) that I hope will work with the UHFSDR as well. It has forward and reflected power and temperature measurement capability. I have not yet assembled a board.
In addition, I plan on designing a control board, likely with a PIC with lots of memory, USB, I2C. Probably a 40 or 44 pin device. Will control an LCD display and read a rotary encoder plus pushbuttons.

On 8/3/2011 12:17 AM, sv1eia wrote:

Hi Dave,

I guess you remember that I was one of the guys that rushed in when you first announced the UHFSDR a few years back to get a kit from Art those days.

One of the very first kits given, yet left in the drawer for so long.
That was until recently when I started to offer the USB2SDR, then I received quite a few messages from USB2SDR users that they have the UHFSDR and want to know how to make the connections for it.

So my interest has been renewed on this and got involved actively in the integration.

So far it seems that USB2SDR and UHFSDR is a very well cooperating couple with control connections of I2C and Tx/GPIO being straighforward.
The other thing that remained to do was the PowerSDR-IQ modifications for it, so I did that too in the latest 1.19.3.20 (USB2SDR) version and got divider by two and a working extended bands setup 2m/4m/1.25m/70cm.

So now, I'm a happy user having USB2SDR and UHFSDR operating Rx and Tx from 1.7MHz to 470MHz and it is FUN INDEED !!

I do feel sorry that I did not have it built when I first received the kit some years back but at least now its really nice to have it working here and I do like it very much. :-)

One of the users, Serge RV3APM got me involved again in this so I have to thank him, I was a bit reluctant at first since my hands are full nowadays with the USB2SDR but it was certainly worth it
-> http://www.lampradio.net/USB2SDR.html

Dave, I think there is something that will bring UHFSDR to another level.
That something is the addition of a UHFSDR BPF for its receiver.
If you design a BPF with enough banks in octaves to cover the whole extended range and do that with I2C control, then UHFSDR will make a invaluable addition to any shack.
There are not many general coverage, up to UHF, transceivers (SDR capable) and I know that we are very near in having this right NOW !

So I'm just adding my bit here for any future directions that you have in mind.

73,
Christos SV1EIA

http://www.wb5rvz.com/usb2sdr/index.htm

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

269. Re: [UHFSDR] USB2SDR & UHFSDR

Yahoo group: UHFSDR
Date: 2011-08-03 21:31:18 UTC
From: Sid Boyce
Topic: 262 Message: 269

That's fine Dave, still keeps it small and I'll be in line for at least 2.
73 ... Sid.

On 03/08/11 18:06, dave wrote:
>
> Sid:
> Will have to decide on how many poles. The filters for the club
> project are 5 pole. I could easily use T25 toroids. In fact the
> current BPF board can be built with T25 toroids, although the number
> of turns for each has not been worked out. I do plan on something
> with better Q than the smt inductors. That causes a 4 to 6 dB loss in
> the filters.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 8/3/2011 5:40 AM, Sid Boyce wrote:
>
>> Dave,
>> Your original BPF board seemed to work out quite expensive,
>> especially the SMT inductors. Is there a different approach to the
>> new one and will it still be 7 pole?
>> 73 ... Sid.
>>
>> On 03/08/11 09:30, Dave wrote:
>>
>>> Christos:
>>> I have a BPF design for our club project that covers160 meters
>>> through 70 cm(except 220 MHz and 70 MHz(not a USA band)). Right now
>>> it is part of a larger board with some other functions. But, I do
>>> plan on putting the PBF's on a separate board. They are I2C
>>> controlled using a PCF8574A and CBT3251's. But, I think I should
>>> think about allowing for more than 8 filters.
>>> I also have a 100Wlow pass filter board(see my under development
>>> page) that has filters for 160M thru 6 meters-seven filters), also
>>> controlled by a PCF8574. Both boards allow board level selection of
>>> I2C addresses with jumpers. I also have prototype 100W amplifier
>>> boards(a pair of RD100 transistors plus a driver and pre-driver)
>>> that I hope will work with the UHFSDR as well. It has forward and
>>> reflected power and temperature measurement capability. I have not
>>> yet assembled a board.
>>> In addition, I plan on designing a control board, likely with a
>>> PIC with lots of memory, USB, I2C. Probably a 40 or 44 pin
>>> device. Will control an LCD display and read a rotary encoder plus
>>> pushbuttons.

>>>
>>> On 8/3/2011 12:17 AM, sv1eia wrote:
>>>
>>>> Hi Dave,
>>>>
>>>> I guess you remember that I was one of the guys that rushed in when
>>>> you first announced the UHFSDR a few years back to get a kit from
>>>> Art those days.
>>>>
>>>> One of the very first kits given, yet left in the drawer for so long.
>>>> That was until recently when I started to offer the USB2SDR, then I
>>>> received quite a few messages from USB2SDR users that they have the
>>>> UHFSDR and want to know how to make the connections for it.
>>>>
>>>> So my interest has been renewed on this and got involved actively
>>>> in the integration.
>>>>
>>>> So far it seems that USB2SDR and UHFSDR is a very well cooperating
>>>> couple with control connections of I2C and Tx/GPIO being
>>>> straighforward.
>>>> The other thing that remained to do was the PowerSDR-IQ
>>>> modifications for it, so I did that too in the latest 1.19.3.20
>>>> (USB2SDR) version and got divider by two and a working extended
>>>> bands setup 2m/4m/1.25m/70cm.
>>>>
>>>> So now, I'm a happy user having USB2SDR and UHFSDR operating Rx and
>>>> Tx from 1.7MHz to 470MHz and it is FUN INDEED !!
>>>>
>>>> I do feel sorry that I did not have it built when I first received
>>>> the kit some years back but at least now its really nice to have it
>>>> working here and I do like it very much. :-)
>>>>
>>>> One of the users, Serge RV3APM got me involved again in this so I
>>>> have to thank him, I was a bit reluctant at first since my hands
>>>> are full nowadays with the USB2SDR but it was certainly worth it
>>>> -> http://www.lampradio.net/USB2SDR.html
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>>>> Dave, I think there is something that will bring UHFSDR to another
>>>> level.
>>>> That something is the addition of a UHFSDR BPF for its receiver.
>>>> If you design a BPF with enough banks in octaves to cover the whole
>>>> extended range and do that with I2C control, then UHFSDR will make
>>>> a invaluable addition to any shack.
>>>> There are not many general coverage, up to UHF, transceivers (SDR
>>>> capable) and I know that we are very near in having this right NOW !
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>>>> So I'm just adding my bit here for any future directions that you
>>>> have in mind.
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>>>> 73,

>>>> Christos SV1EIA
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>>>> http://www.wb5rvz.com/usb2sdr/index.htm
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>>>
>>
>>
>> --
>>
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

270. Re: [UHFSDR] USB2SDR & UHFSDR

Yahoo group: UHFSDR
Date: 2011-08-03 21:35:55 UTC
From: Sid Boyce
Topic: 262 Message: 270

Pretty much the Mobo, less the driver and PA. It would make a nice fit
with the UHFSDR and the HiQSDR.
73 ... Sid.

On 03/08/11 18:22, The Silver Fox wrote:
>
> The description sounds almost the same as the mobokit.
>
> 73's
>
> Alan -- W6ARH
>
> *From:*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] *On
> Behalf Of *Sid Boyce
> *Sent:* Wednesday, August 03, 2011 5:41 AM
> *To:* UHFSDR@yahoogroups.com
> *Subject:* Re: [UHFSDR] USB2SDR & UHFSDR
>
> Dave,
> Your original BPF board seemed to work out quite expensive, especially
> the SMT inductors. Is there a different approach to the new one and
> will it still be 7 pole?
> 73 ... Sid.
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> On 03/08/11 09:30, Dave wrote:
>
> Christos:
> I have a BPF design for our club project that covers160 meters
> through 70 cm(except 220 MHz and 70 MHz(not a USA band)). Right
> now it is part of a larger board with some other functions. But,
> I do plan on putting the PBF's on a separate board. They are I2C
> controlled using a PCF8574A and CBT3251's. But, I think I should
> think about allowing for more than 8 filters.
> I also have a 100Wlow pass filter board(see my under development
> page) that has filters for 160M thru 6 meters-seven filters), also
> controlled by a PCF8574. Both boards allow board level selection
> of I2C addresses with jumpers. I also have prototype 100W
> amplifier boards(a pair of RD100 transistors plus a driver and
> pre-driver) that I hope will work with the UHFSDR as well. It has
> forward and reflected power and temperature measurement
> capability. I have not yet assembled a board.
> In addition, I plan on designing a control board, likely with a
> PIC with lots of memory, USB, I2C. Probably a 40 or 44 pin
> device. Will control an LCD display and read a rotary encoder
> plus pushbuttons.

>
> On 8/3/2011 12:17 AM, sv1eia wrote:
>
> Hi Dave,
>
> I guess you remember that I was one of the guys that rushed in
> when you first announced the UHFSDR a few years back to get a
> kit from Art those days.
>
> One of the very first kits given, yet left in the drawer for
> so long.
> That was until recently when I started to offer the USB2SDR,
> then I received quite a few messages from USB2SDR users that
> they have the UHFSDR and want to know how to make the
> connections for it.
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> actively in the integration.
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> The other thing that remained to do was the PowerSDR-IQ
> modifications for it, so I did that too in the latest
> 1.19.3.20 (USB2SDR) version and got divider by two and a
> working extended bands setup 2m/4m/1.25m/70cm.
>
> So now, I'm a happy user having USB2SDR and UHFSDR operating
> Rx and Tx from 1.7MHz to 470MHz and it is FUN INDEED !!
>
> I do feel sorry that I did not have it built when I first
> received the kit some years back but at least now its really
> nice to have it working here and I do like it very much. :-)
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> One of the users, Serge RV3APM got me involved again in this
> so I have to thank him, I was a bit reluctant at first since
> my hands are full nowadays with the USB2SDR but it was
> certainly worth it
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> Dave, I think there is something that will bring UHFSDR to
> another level.
> That something is the addition of a UHFSDR BPF for its receiver.
> If you design a BPF with enough banks in octaves to cover the
> whole extended range and do that with I2C control, then UHFSDR
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> There are not many general coverage, up to UHF, transceivers
> (SDR capable) and I know that we are very near in having this
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> So I'm just adding my bit here for any future directions that
> you have in mind.
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> 73,
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271. UHFSDR LowPassFilters connected to DBMs

Yahoo group: UHFSDR
Date: 2011-08-05 07:15:33 UTC
From: sv1eia
Topic: 271 Message: 271

Dave,

Do you have handy any values to double the passband, (increase the lowpass cuttof frequency) in the filters connected to the Minicircuits DBMs ?
I mean the two filters in C53,C54,C55,C56,C57,C58,L2,L3,R37,R38.

73,
Christos SV1EIA

272. Full Kit Status

Yahoo group: UHFSDR
Date: 2011-08-05 13:56:12 UTC
From: The Silver Fox
Topic: 238 Message: 272

After many weeks of being diverted in circles SiLabs has finally relented and given me a decent price on the Si570s. I am about to order ten of them for the kits and will email again once they accept and give me a potential delivery date. I think they are planning on six weeks.

73's

Alan - W6ARH

273. Re: [UHFSDR] UHFSDR LowPassFilters connected to DBMs

Yahoo group: UHFSDR
Date: 2011-08-05 18:45:02 UTC
From: dave
Topic: 271 Message: 273

Christos:
I don't have any values handy. Reducing the C's and L's would be needed. I think I designed it for a 50 KHz cutoff whic works for 48 KHz or 96 KHz sampling.

Dave - WB6DHW
<http://wb6dhw.com>

On 8/5/2011 12:15 AM, sv1eia wrote:
>
> Dave,
>
> Do you have handy any values to double the passband, (increase the lowpass
> cuttof frequency) in the filters connected to the Minicircuits DBMs ?
> I mean the two filters in C53,C54,C55,C56,C57,C58,L2,L3,R37,R38.
>
> 73,
> Christos SV1EIA
>
>

274. Re: UHFSDR LowPassFilters connected to DBMs

Yahoo group: UHFSDR
Date: 2011-08-05 21:31:44 UTC
From: sv1eia
Topic: 271 Message: 274

--- In UHFSDR@yahoogroups.com, dave <dave@...> wrote:
>
> Christos:
> I don't have any values handy. Reducing the C's and L's would be needed. I
> think I designed it for a 50 KHz cutoff whic works for 48 KHz or 96 KHz sampling.

Yes, it looks like it, when in 192KHz sampling rate the band edges are attenuated so this filter bandwidth needs to be increased.

I'll see it with ELSIE and modify the values to increase the cutoff then.

73,
Christos SV1EIA

>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 8/5/2011 12:15 AM, sv1eia wrote:
> >
> > Dave,
> >
> > Do you have handy any values to double the passband, (increase the lowpass
> > cuttof frequency) in the filters connected to the Minicircuits DBMs ?
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> >
> > 73,
> > Christos SV1EIA
> >
> >
>

275. Re: [UHFSDR] Re: UHFSDR LowPassFilters connected to DBMs

Yahoo group: UHFSDR
Date: 2011-08-05 22:56:00 UTC
From: dave
Topic: 271 Message: 275

Christos:
I think I used Elsie to design it. have been moving the grass the last
couple of weeks. My riding lawn mower broke down and have to use the push
mower. Will be done tomorrow. My neighbor cuts most of my 10 acres for hay.
But, last year I put in poles for an 80 meter 4-square and put down 12,000 feet
of radials on the ground. I don't want him getting his farm equipment tangled
in my radials, so now I have to mow that extra acre! Now it's done and I can
start putting up the verticals. The grass has covered the radials and I think I
only hit 2 or 3 and didn't cut any. Pretty good for 240 radials. I was too
lazy to bury all of them!

Dave - WB6DHW
<http://wb6dhw.com>

On 8/5/2011 2:31 PM, sv1eia wrote:
>
>
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, dave
> <dave@...> wrote:
> >
> > Christos:
> > I don't have any values handy. Reducing the C's and L's would be needed. I
> > think I designed it for a 50 KHz cutoff whic works for 48 KHz or 96 KHz
> sampling.
>
> Yes, it looks like it, when in 192KHz sampling rate the band edges are
> attenuated so this filter bandwidth needs to be increased.
>
> I'll see it with ELSIE and modify the values to increase the cutoff then.
>
> 73,
> Christos SV1EIA
>
> >
> > Dave - WB6DHW
> > <http://wb6dhw.com>
> >
> > On 8/5/2011 12:15 AM, sv1eia wrote:
> > >
> > > Dave,
> > >
> > > Do you have handy any values to double the passband, (increase the lowpass
> > > cuttof frequency) in the filters connected to the Minicircuits DBMs ?
> > > I mean the two filters in C53,C54,C55,C56,C57,C58,L2,L3,R37,R38.

> > >
> > > 73,
> > > Christos SV1EIA
> > >
> > >
> >
>
>
>
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 9.0.901 / Virus Database: 271.1.1/3812 - Release Date: 08/04/11 23:34:00
>

276. RE: UHFSDR full kits

Yahoo group: UHFSDR
Date: 2011-08-06 15:53:16 UTC
From: The Silver Fox
Topic: 276 Message: 276

Yes. It is the same email. Please wait for me to announce the availability. If the Si570 order is solid, then there will be a small price reduction. I plan to announce it next week. Thanks for your interest.

73's

Alan - W6ARH

From: Andy Lees [mailto:andrewl.oz@...]
Sent: Saturday, August 06, 2011 7:46 AM
To: alan.r.hill@...
Subject: UHFSDR full kits

Hi Alan,

Can I place an order for the UHFSDR kit, or are they all committed? If it's possible, is it the same email as the mobokit orders?

Regards,

Andy G8DQE/VK2DQE

277. Re: [UHFSDR] RE: UHFSDR full kits

Yahoo group: UHFSDR
Date: 2011-08-07 06:27:58 UTC
From: Simon Eatough
Topic: 276 Message: 277

Alan can I place a order for a Si570 ?
Thanks
Simon
ZL2BRG

On Sun, Aug 7, 2011 at 3:53 AM, The Silver Fox <alan.r.hill@...>wrote:

> **
>
>
> Yes. It is the same email. Please wait for me to announce the
> availability. If the Si570 order is solid, then there will be a small price
> reduction. I plan to announce it next week. Thanks for your interest.***
> *
>
> ** **
>
> 73’s****
>
> Alan – W6ARH****
>
> ** **
>
> *From:* Andy Lees [mailto:andrewl.oz@...]
> *Sent:* Saturday, August 06, 2011 7:46 AM
> *To:* alan.r.hill@...
> *Subject:* UHFSDR full kits****
>
> ** **
>
> Hi Alan,****
>
> ** **
>
> Can I place an order for the UHFSDR kit, or are they all committed? If
> it's possible, is it the same email as the mobokit orders?****
>
> ** **
>
> Regards,****
>
> ** **
>
> Andy G8DQE/VK2DQE****
>

>
>

278. RE: [UHFSDR] RE: UHFSDR full kits

Yahoo group: UHFSDR
Date: 2011-08-07 17:43:59 UTC
From: The Silver Fox
Topic: 276 Message: 278

Simon,

Sure. The current estimate is $66. This includes taxes, shipping, paypal costs, and mailing costs.

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Simon Eatough
Sent: Saturday, August 06, 2011 11:28 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] RE: UHFSDR full kits

Alan can I place a order for a Si570 ?

Thanks

Simon

ZL2BRG

On Sun, Aug 7, 2011 at 3:53 AM, The Silver Fox <alan.r.hill@...> wrote:

Yes. It is the same email. Please wait for me to announce the availability. If the Si570 order is solid, then there will be a small price reduction. I plan to announce it next week. Thanks for your interest.

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Alan - W6ARH

From: Andy Lees [mailto:andrewl.oz@...]
Sent: Saturday, August 06, 2011 7:46 AM
To: alan.r.hill@...
Subject: UHFSDR full kits

Hi Alan,

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Regards,

Andy G8DQE/VK2DQE

279. Re: UHFSDR full kits

Yahoo group: UHFSDR
Date: 2011-08-07 18:16:44 UTC
From: sv1eia
Topic: 276 Message: 279

Alan, let me ask you again, you probably missed this question before,

Are you moving into a 'group-buy' direction or are you willing to have stock of the kits for future purchases?

73,
Christos SV1EIA

--- In UHFSDR@yahoogroups.com, "The Silver Fox" <alan.r.hill@...> wrote:
>
> Simon,
>
> Sure. The current estimate is $66. This includes taxes, shipping,
> paypal costs, and mailing costs.
>
>
>
> From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
> Simon Eatough
> Sent: Saturday, August 06, 2011 11:28 PM
> To: UHFSDR@yahoogroups.com
> Subject: Re: [UHFSDR] RE: UHFSDR full kits
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> Alan can I place a order for a Si570 ?
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> Thanks
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> Simon
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> ZL2BRG
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>
> 73's
>
> Alan - W6ARH
>
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> From: Andy Lees [mailto:andrewl.oz@...]
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> Hi Alan,
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> possible, is it the same email as the mobokit orders?
>
>
>
> Regards,
>
>
>
> Andy G8DQE/VK2DQE
>

280. RE: [UHFSDR] Re: UHFSDR full kits

Yahoo group: UHFSDR
Date: 2011-08-07 18:55:02 UTC
From: The Silver Fox
Topic: 276 Message: 280

I am ordering the Si570's to allow the production of Full Kits. I cannot afford to front the money for a larger order but I am willing to start a pipeline of availability for the Si570's. It is an issue of cash flow.

So, the game plan is to support a group of ten and then consider another round of ten depending on sales. If I sell enough to justify another purchase, then I will consider doing it. I hope this makes more sense of what I am up to and where I am in the process.

73's

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of sv1eia
Sent: Sunday, August 07, 2011 11:17 AM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Re: UHFSDR full kits

Alan, let me ask you again, you probably missed this question before,

Are you moving into a 'group-buy' direction or are you willing to have stock of the kits for future purchases?

73,
Christos SV1EIA

--- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com> , "The Silver Fox" <alan.r.hill@...> wrote:
>
> Simon,
>
> Sure. The current estimate is $66. This includes taxes, shipping,
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>
>
> From: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com> [mailto:UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>] On Behalf Of
> Simon Eatough
> Sent: Saturday, August 06, 2011 11:28 PM
> To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> Subject: Re: [UHFSDR] RE: UHFSDR full kits
>
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>
> Alan can I place a order for a Si570 ?
>
> Thanks
>
> Simon
>
> ZL2BRG
>
>
>
> On Sun, Aug 7, 2011 at 3:53 AM, The Silver Fox <alan.r.hill@...>
> wrote:
>
>
>
> Yes. It is the same email. Please wait for me to announce the
> availability. If the Si570 order is solid, then there will be a small
price
> reduction. I plan to announce it next week. Thanks for your interest.
>
>
>
> 73's
>
> Alan - W6ARH
>
>
>
> From: Andy Lees [mailto:andrewl.oz@...]
> Sent: Saturday, August 06, 2011 7:46 AM
> To: alan.r.hill@...
> Subject: UHFSDR full kits
>
>
>
> Hi Alan,
>
>
>
> Can I place an order for the UHFSDR kit, or are they all committed? If
it's
> possible, is it the same email as the mobokit orders?
>
>
>
> Regards,
>
>

>
> Andy G8DQE/VK2DQE
>

281. Re: UHFSDR full kits

Yahoo group: UHFSDR
Date: 2011-08-07 20:23:54 UTC
From: stdallo
Topic: 276 Message: 281

Hi Alan,
I'm interested for one Si570 if possible.

Thanks,
Stefano

--- In UHFSDR@yahoogroups.com, "The Silver Fox" <alan.r.hill@...> wrote:
>
> Simon,
>
> Sure. The current estimate is $66. This includes taxes, shipping,
> paypal costs, and mailing costs.
>
>
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> From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
> Simon Eatough
> Sent: Saturday, August 06, 2011 11:28 PM
> To: UHFSDR@yahoogroups.com
> Subject: Re: [UHFSDR] RE: UHFSDR full kits
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> Alan can I place a order for a Si570 ?
>
> Thanks
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> Simon
>
> ZL2BRG
>

282. Re: USB2SDR & UHFSDR

Yahoo group: UHFSDR
Date: 2011-08-07 20:39:22 UTC
From: sv1eia
Topic: 262 Message: 282

Dave,

I was under the impression that QSD is way better than the DBMs method.
So I tried to see the Two Tone close spaced (2KHz) IMD DR test, the one that Sherwood Eng. Labs use to sort the receiver's performance, on how well the UHFSDR can do.
To my surprise, UHFSDR achieved 85dB which ranks really high there.
The best number that I could get out of a homebrew QSD SDR rig was 87 dB.

And that 85 dB of UHFSDR is at a high frequency, 50MHz and above, whereas plain QSDs cannot go there with ease, if at all.
-> http://groups.yahoo.com/group/UHFSDR/files/SV1EIA/

Very nice surprise, good work Dave.

73,
Christos SV1EIA

--- In UHFSDR@yahoogroups.com, dave <dave@...> wrote:
>
> Christos:
> I don't have a time frame yet for the BPF's. One thing you could do is use 2
> of my BPF boards. The decoder used does have an enable/disable pin. But it is
> no I2C controlled(3 binary data lines and the enable).
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 8/3/2011 2:25 AM, sv1eia wrote:
> >
> >
> >
> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Dave
> > <dave@> wrote:
> > >
> > > Christos:
> > > I have a BPF design for our club project that covers160 meters
> > > through 70 cm(except 220 MHz and 70 MHz(not a USA band)). Right now it
> > > is part of a larger board with some other functions. But, I do plan on
> > > putting the PBF's on a separate board. They are I2C controlled using a
> > > PCF8574A and CBT3251's. But, I think I should think about allowing for
> > > more than 8 filters.
> >
> > Yes, thats more like it.
> > IMHO this is the component thats needed now.
> > The addition of 4m and 1.25m whould be good though.
> > I also think that more than 8 banks are needed.

> >
> > Do you have any plan of when you can move on with it and have something out?
> >
> > > I also have a 100Wlow pass filter board(see my under development
> > > page) that has filters for 160M thru 6 meters-seven filters), also
> > > controlled by a PCF8574. Both boards allow board level selection of I2C
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> > > pair of RD100 transistors plus a driver and pre-driver) that I hope will
> > > work with the UHFSDR as well. It has forward and reflected power and
> > > temperature measurement capability. I have not yet assembled a board.
> > > In addition, I plan on designing a control board, likely with a PIC
> > > with lots of memory, USB, I2C. Probably a 40 or 44 pin device. Will
> > > control an LCD display and read a rotary encoder plus pushbuttons.
> > >
> > > On 8/3/2011 12:17 AM, sv1eia wrote:
> >
>

283. RE: [UHFSDR] Re: USB2SDR & UHFSDR

Yahoo group: UHFSDR
Date: 2011-08-07 21:03:10 UTC
From: MIKE DURKIN
Topic: 262 Message: 283

The UHFSDR uses QSD & DBM ... im fairly sure ...

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: sv1eia@...
Date: Sun, 7 Aug 2011 20:39:22 +0000
Subject: [UHFSDR] Re: USB2SDR & UHFSDR

Dave,

I was under the impression that QSD is way better than the DBMs method.

So I tried to see the Two Tone close spaced (2KHz) IMD DR test, the one that Sherwood Eng. Labs use to sort the receiver's performance, on how well the UHFSDR can do.

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And that 85 dB of UHFSDR is at a high frequency, 50MHz and above, whereas plain QSDs cannot go there with ease, if at all.

-> http://groups.yahoo.com/group/UHFSDR/files/SV1EIA/

Very nice surprise, good work Dave.

73,

Christos SV1EIA

--- In UHFSDR@yahoogroups.com, dave <dave@...> wrote:

>

> Christos:

> I don't have a time frame yet for the BPF's. One thing you could do is use 2

> of my BPF boards. The decoder used does have an enable/disable pin. But it is

> no I2C controlled(3 binary data lines and the enable).

>

> Dave - WB6DHW

> <http://wb6dhw.com>

>

> On 8/3/2011 2:25 AM, sv1eia wrote:

> >

> >

> >

> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Dave

> > <dave@> wrote:

> > >

> > > Christos:

> > > I have a BPF design for our club project that covers160 meters

> > > through 70 cm(except 220 MHz and 70 MHz(not a USA band)). Right now it

> > > is part of a larger board with some other functions. But, I do plan on

> > > putting the PBF's on a separate board. They are I2C controlled using a

> > > PCF8574A and CBT3251's. But, I think I should think about allowing for

> > > more than 8 filters.

> >

> > Yes, thats more like it.

> > IMHO this is the component thats needed now.

> > The addition of 4m and 1.25m whould be good though.

> > I also think that more than 8 banks are needed.

> >

> > Do you have any plan of when you can move on with it and have something out?

> >

> > > I also have a 100Wlow pass filter board(see my under development

> > > page) that has filters for 160M thru 6 meters-seven filters), also

> > > controlled by a PCF8574. Both boards allow board level selection of I2C

> > > addresses with jumpers. I also have prototype 100W amplifier boards(a

> > > pair of RD100 transistors plus a driver and pre-driver) that I hope will

> > > work with the UHFSDR as well. It has forward and reflected power and

> > > temperature measurement capability. I have not yet assembled a board.

> > > In addition, I plan on designing a control board, likely with a PIC

> > > with lots of memory, USB, I2C. Probably a 40 or 44 pin device. Will

> > > control an LCD display and read a rotary encoder plus pushbuttons.

> > >

> > > On 8/3/2011 12:17 AM, sv1eia wrote:

> >

>

284. Re: USB2SDR & UHFSDR

Yahoo group: UHFSDR
Date: 2011-08-07 21:51:03 UTC
From: sv1eia
Topic: 262 Message: 284

Mike, its not a QSD implementation as described in the Tayloe paper.
Although there are two quadrature signals, the two DBMs are not a QSD.
And they do need BPFs compared to simple LPFs in QSD Rx.

Yet, it seems that the design can cope well compared to other homebrew QSD rigs.

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
> The UHFSDR uses QSD & DBM ... im fairly sure ...
>
>
> Mike KC7NOA
>
> To: UHFSDR@yahoogroups.com
> From: sv1eia@...
> Date: Sun, 7 Aug 2011 20:39:22 +0000
> Subject: [UHFSDR] Re: USB2SDR & UHFSDR
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> And that 85 dB of UHFSDR is at a high frequency, 50MHz and above, whereas plain QSDs cannot go there with ease, if at all.
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> -> http://groups.yahoo.com/group/UHFSDR/files/SV1EIA/
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> Very nice surprise, good work Dave.
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> 73,
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> Christos SV1EIA
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> --- In UHFSDR@yahoogroups.com, dave <dave@> wrote:
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> > Christos:
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> > no I2C controlled(3 binary data lines and the enable).
>
> >
>
> > Dave - WB6DHW
>
> > <http://wb6dhw.com>
>
> >
>
> > On 8/3/2011 2:25 AM, sv1eia wrote:
>

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> > > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Dave
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> > > <dave@> wrote:
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> > > >
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> > > > Christos:
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> > > Yes, thats more like it.
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> > > IMHO this is the component thats needed now.
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> > > The addition of 4m and 1.25m whould be good though.
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> > > Do you have any plan of when you can move on with it and have something out?
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> > > > I also have a 100Wlow pass filter board(see my under development
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> > > >
>
> > > > On 8/3/2011 12:17 AM, sv1eia wrote:
>
> > >
>
> >
>

285. Re: [UHFSDR] Re: USB2SDR & UHFSDR

Yahoo group: UHFSDR
Date: 2011-08-07 22:25:15 UTC
From: dave
Topic: 262 Message: 285

Thanks. My impression was that the QSD has less loss and, of course, uses very inexpensive components. But, I don't know of a QSD that works much above 100 MHz at a reasonable price.

Dave - WB6DHW
<http://wb6dhw.com>

On 8/7/2011 1:39 PM, sv1eia wrote:
>
> Dave,
>
> I was under the impression that QSD is way better than the DBMs method.
> So I tried to see the Two Tone close spaced (2KHz) IMD DR test, the one that
> Sherwood Eng. Labs use to sort the receiver's performance, on how well the
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> To my surprise, UHFSDR achieved 85dB which ranks really high there.
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> And that 85 dB of UHFSDR is at a high frequency, 50MHz and above, whereas
> plain QSDs cannot go there with ease, if at all.
> -> http://groups.yahoo.com/group/UHFSDR/files/SV1EIA/
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> Very nice surprise, good work Dave.
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> 73,
> Christos SV1EIA
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> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, dave
> <dave@...> wrote:
> >
> > Christos:
> > I don't have a time frame yet for the BPF's. One thing you could do is use 2
> > of my BPF boards. The decoder used does have an enable/disable pin. But it is
> > no I2C controlled(3 binary data lines and the enable).
> >
> > Dave - WB6DHW
> > <http://wb6dhw.com>
> >
> > On 8/3/2011 2:25 AM, sv1eia wrote:
> > >
> > >
> > >
> > > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> <mailto:UHFSDR%40yahoogroups.com>, Dave
> > > <dave@> wrote:

> > > >
> > > > Christos:
> > > > I have a BPF design for our club project that covers160 meters
> > > > through 70 cm(except 220 MHz and 70 MHz(not a USA band)). Right now it
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> > > >
> > > > On 8/3/2011 12:17 AM, sv1eia wrote:
> > >
> >
>
>

286. Re: [UHFSDR] Re: USB2SDR & UHFSDR

Yahoo group: UHFSDR
Date: 2011-08-07 23:00:22 UTC
From: Sid Boyce
Topic: 262 Message: 286

It's described right at the top of "UHF-SDR operation.doc" which I was
only recently made aware of.
73 ... Sid.

On 07/08/11 23:25, dave wrote:
>
> Thanks. My impression was that the QSD has less loss and, of
> course, uses very inexpensive components. But, I don't know of a QSD
> that works much above 100 MHz at a reasonable price.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 8/7/2011 1:39 PM, sv1eia wrote:
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>> -> http://groups.yahoo.com/group/UHFSDR/files/SV1EIA/
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>> Very nice surprise, good work Dave.
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>> 73,
>> Christos SV1EIA
>>
>> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, dave
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>> >
>> > Christos:
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>> > Dave - WB6DHW
>> > <http://wb6dhw.com>

>> >
>> > On 8/3/2011 2:25 AM, sv1eia wrote:
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>> > > >
>> > > > On 8/3/2011 12:17 AM, sv1eia wrote:
>> > >
>> >
>>
>

>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

287. RE: [UHFSDR] Re: UHFSDR full kits

Yahoo group: UHFSDR
Date: 2011-08-07 23:11:37 UTC
From: Andrew Lees
Topic: 276 Message: 287

Alan,

I am more than happy to pre-pay for a kit if that will increase batch size and improve access. It will add to your guaranteed orders, and if anything does go awry with the kits you can always do a paypal refund. If the softrock experience is any guide, you will be bombarded with kit orders!

Are you planning on including the PCB in the kits?

Regards,

Andy G8DQE/VK2DQE

On Sun, 2011-08-07 at 11:55 -0700, The Silver Fox wrote:

>
>
> I am ordering the Si570's to allow the production of Full Kits. I
> cannot afford to front the money for a larger order but I am willing
> to start a pipeline of availability for the Si570's. It is an issue
> of cash flow.
>
> So, the game plan is to support a group of ten and then consider
> another round of ten depending on sales. If I sell enough to justify
> another purchase, then I will consider doing it. I hope this makes
> more sense of what I am up to and where I am in the process.
>
>
>
> 73's
>
> Alan - W6ARH
>
>
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>
>
>
> From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf
> Of sv1eia
> Sent: Sunday, August 07, 2011 11:17 AM
> To: UHFSDR@yahoogroups.com
> Subject: [UHFSDR] Re: UHFSDR full kits
>
>

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>
>
>
> Alan, let me ask you again, you probably missed this question before,
>
> Are you moving into a 'group-buy' direction or are you willing to have
> stock of the kits for future purchases?
>
> 73,
> Christos SV1EIA
>
> --- In UHFSDR@yahoogroups.com, "The Silver Fox" <alan.r.hill@...>
> wrote:
> >
> > Simon,
> >
> > Sure. The current estimate is $66. This includes taxes, shipping,
> > paypal costs, and mailing costs.
> >
> >
> >
> > From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On
> Behalf Of
> > Simon Eatough
> > Sent: Saturday, August 06, 2011 11:28 PM
> > To: UHFSDR@yahoogroups.com
> > Subject: Re: [UHFSDR] RE: UHFSDR full kits
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> >
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> >
> > Alan can I place a order for a Si570 ?
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> > Thanks
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> > Simon
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> > ZL2BRG
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> > On Sun, Aug 7, 2011 at 3:53 AM, The Silver Fox <alan.r.hill@...>
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> > Yes. It is the same email. Please wait for me to announce the
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> interest.
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> >
> > 73's
> >
> > Alan - W6ARH
> >
> >
> >
> > From: Andy Lees [mailto:andrewl.oz@...]
> > Sent: Saturday, August 06, 2011 7:46 AM
> > To: alan.r.hill@...
> > Subject: UHFSDR full kits
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> > Hi Alan,
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> > Andy G8DQE/VK2DQE
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288. RE: [UHFSDR] Re: UHFSDR full kits

Yahoo group: UHFSDR
Date: 2011-08-08 00:14:26 UTC
From: Eric Haskell
Topic: 276 Message: 288

Alan,

I was planing to pay in advance for the si570. I was just waiting for a full price. I can send $66 now, if you like, and more later if needed for unforeseen expenses. I want you to get paid for you efforts too. Let me know if you want me to proceed with this plan and sen money now or some other plan or just want to keep the order at 10 units for the kits you are doing.

Regards,
Eric Haskell
KC4YOE

To: UHFSDR@yahoogroups.com
From: alan.r.hill@...
Date: Sun, 7 Aug 2011 11:55:02 -0700
Subject: RE: [UHFSDR] Re: UHFSDR full kits

I am ordering the Si570's to allow the production of Full Kits. I cannot afford to front the money for a larger order but I am willing to start a pipeline of availability for the Si570's. It is an issue of cash flow.So, the game plan is to support a group of ten and then consider another round of ten depending on sales. If I sell enough to justify another purchase, then I will consider doing it. I hope this makes more sense of what I am up to and where I am in the process. 73'sAlan – W6ARH From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of sv1eia
Sent: Sunday, August 07, 2011 11:17 AM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Re: UHFSDR full kits Alan, let me ask you again, you probably missed this question before,

Are you moving into a 'group-buy' direction or are you willing to have stock of the kits for future purchases?

73,
Christos SV1EIA

--- In UHFSDR@yahoogroups.com, "The Silver Fox" <alan.r.hill@...> wrote:
>
> Simon,
>
> Sure. The current estimate is $66. This includes taxes, shipping,
> paypal costs, and mailing costs.
>
>
>
> From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
> Simon Eatough
> Sent: Saturday, August 06, 2011 11:28 PM

> To: UHFSDR@yahoogroups.com
> Subject: Re: [UHFSDR] RE: UHFSDR full kits
>
>
>
>
>
> Alan can I place a order for a Si570 ?
>
> Thanks
>
> Simon
>
> ZL2BRG
>
>
>
> On Sun, Aug 7, 2011 at 3:53 AM, The Silver Fox <alan.r.hill@...>
> wrote:
>
>
>
> Yes. It is the same email. Please wait for me to announce the
> availability. If the Si570 order is solid, then there will be a small price
> reduction. I plan to announce it next week. Thanks for your interest.
>
>
>
> 73's
>
> Alan - W6ARH
>
>
>
> From: Andy Lees [mailto:andrewl.oz@...]
> Sent: Saturday, August 06, 2011 7:46 AM
> To: alan.r.hill@...
> Subject: UHFSDR full kits
>
>
>
> Hi Alan,
>
>
>
> Can I place an order for the UHFSDR kit, or are they all committed? If it's
> possible, is it the same email as the mobokit orders?
>
>
>

> Regards,
>
>
>
> Andy G8DQE/VK2DQE
>

289. RE: [UHFSDR] Re: UHFSDR full kits

Yahoo group: UHFSDR
Date: 2011-08-08 00:46:09 UTC
From: The Silver Fox
Topic: 276 Message: 289

I have sold 30 full kits so far but have been discouraged with the criticism and apparent lack of interest from a group with so many members. However, until the demand is truly dead, I will continue to offer them as long as I can.

Prepayment does enable me to have more faith and more accurately gauge the demand. I do not want to nickel and dime the company providing the Si570's but they are so expensive I cannot buy more than a dozen at a time.

I appreciate any support in keeping the miniscule pipeline going. I will currently accept orders for the Si570s at $66 USD and full kits with PCB for $190 US and $194 DX.

Thanks and 73's

Alan – W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Andrew Lees
Sent: Sunday, August 07, 2011 4:12 PM
To: UHFSDR@yahoogroups.com
Subject: RE: [UHFSDR] Re: UHFSDR full kits

Alan,

I am more than happy to pre-pay for a kit if that will increase batch size and improve access. It will add to your guaranteed orders, and if anything does go awry with the kits you can always do a paypal refund. If the softrock experience is any guide, you will be bombarded with kit orders!

Are you planning on including the PCB in the kits?

Regards,

Andy G8DQE/VK2DQE

On Sun, 2011-08-07 at 11:55 -0700, The Silver Fox wrote:

I am ordering the Si570's to allow the production of Full Kits. I cannot afford to front the money for a larger order but I am willing to start a pipeline of availability for the Si570's. It is an issue of cash flow.

So, the game plan is to support a group of ten and then consider another round of ten depending on sales. If I sell enough to justify another purchase, then I will consider doing it. I hope this makes more sense of what I am up to and where I am in the process.

73's

Alan – W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of sv1eia
Sent: Sunday, August 07, 2011 11:17 AM

To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Re: UHFSDR full kits

Alan, let me ask you again, you probably missed this question before,

Are you moving into a 'group-buy' direction or are you willing to have stock of the kits for future purchases?

73,
Christos SV1EIA

--- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com> , "The Silver Fox" <alan.r.hill@...> wrote:
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> Simon,
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> Sure. The current estimate is $66. This includes taxes, shipping,
> paypal costs, and mailing costs.
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[mailto:UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>] On Behalf Of
> Simon Eatough
> Sent: Saturday, August 06, 2011 11:28 PM
> To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> Subject: Re: [UHFSDR] RE: UHFSDR full kits
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> Alan can I place a order for a Si570 ?
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> Thanks
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> Simon
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> ZL2BRG
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> wrote:
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> availability. If the Si570 order is solid, then there will be a small price
> reduction. I plan to announce it next week. Thanks for your interest.
>

>
>
> 73's
>
> Alan - W6ARH
>
>
>
> From: Andy Lees [mailto:andrewl.oz@...]
> Sent: Saturday, August 06, 2011 7:46 AM
> To: alan.r.hill@...
> Subject: UHFSDR full kits
>
>
>
> Hi Alan,
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> Can I place an order for the UHFSDR kit, or are they all committed? If it's
> possible, is it the same email as the mobokit orders?
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>
> Regards,
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>
>
> Andy G8DQE/VK2DQE
>

290. Re: [UHFSDR] Re: UHFSDR full kits

Yahoo group: UHFSDR
Date: 2011-08-08 15:00:19 UTC
From: Marcel pitzini
Topic: 276 Message: 290

Alan,

Which model are you selling for the SI570. I will be interested if it is the one that goes to 1.4 Ghz.

Thank you for your good work,

Marcel W5BJV

On Mon, Aug 8, 2011 at 2:46 AM, The Silver Fox <alan.r.hill@gmail.com>wrote:

> **
>
>
> I have sold 30 full kits so far but have been discouraged with the
> criticism and apparent lack of interest from a group with so many members.
> However, until the demand is truly dead, I will continue to offer them as
> long as I can.****
>
> Prepayment does enable me to have more faith and more accurately gauge the
> demand. I do not want to nickel and dime the company providing the Si570's
> but they are so expensive I cannot buy more than a dozen at a time.****
>
> I appreciate any support in keeping the miniscule pipeline going. I will
> currently accept orders for the Si570s at $66 USD and full kits with PCB for
> $190 US and $194 DX.****
>
> Thanks and 73's****
>
> Alan – W6ARH****
>
> ** **
>
> *From:* UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] *On Behalf
> Of *Andrew Lees
> *Sent:* Sunday, August 07, 2011 4:12 PM
> *To:* UHFSDR@yahoogroups.com
> *Subject:* RE: [UHFSDR] Re: UHFSDR full kits****
>
> ** **
>
> ****
>
> Alan,
>
> I am more than happy to pre-pay for a kit if that will increase batch size

> and improve access. It will add to your guaranteed orders, and if anything
> does go awry with the kits you can always do a paypal refund. If the
> softrock experience is any guide, you will be bombarded with kit orders!
>
> Are you planning on including the PCB in the kits?
>
> Regards,
>
> Andy G8DQE/VK2DQE
>
> On Sun, 2011-08-07 at 11:55 -0700, The Silver Fox wrote:****
>
> ****
>
> I am ordering the Si570’s to allow the production of Full Kits. I cannot
> afford to front the money for a larger order but I am willing to start a
> pipeline of availability for the Si570’s. It is an issue of cash flow.
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> So, the game plan is to support a group of ten and then consider another
> round of ten depending on sales. If I sell enough to justify another
> purchase, then I will consider doing it. I hope this makes more sense of
> what I am up to and where I am in the process.
>
>
>
> 73’s
>
> Alan – W6ARH
>
>
>
> ****
>
> *From:* UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] *On Behalf
> Of *sv1eia
> *Sent:* Sunday, August 07, 2011 11:17 AM
> *To:* UHFSDR@yahoogroups.com
> *Subject:* [UHFSDR] Re: UHFSDR full kits
>
> ****
>
>
>
> ****
>
> Alan, let me ask you again, you probably missed this question before,
>
> Are you moving into a 'group-buy' direction or are you willing to have
> stock of the kits for future purchases?
>

> 73,
> Christos SV1EIA
>
> --- In UHFSDR@yahoogroups.com, "The Silver Fox" <alan.r.hill@...> wrote:
> >
> > Simon,
> >
> > Sure. The current estimate is $66. This includes taxes, shipping,
> > paypal costs, and mailing costs.
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> >
> >
> > From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf
> Of
> > Simon Eatough
> > Sent: Saturday, August 06, 2011 11:28 PM
> > To: UHFSDR@yahoogroups.com
> > Subject: Re: [UHFSDR] RE: UHFSDR full kits
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> > Alan can I place a order for a Si570 ?
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> > Thanks
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> > Simon
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> >
> >
> > On Sun, Aug 7, 2011 at 3:53 AM, The Silver Fox <alan.r.hill@...>
> > wrote:
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> >
> >
> > Yes. It is the same email. Please wait for me to announce the
> > availability. If the Si570 order is solid, then there will be a small
> price
> > reduction. I plan to announce it next week. Thanks for your interest.
> >
> >
> >
> > 73's
> >
> > Alan - W6ARH
> >
> >

> >
> > From: Andy Lees [mailto:andrewl.oz@...]
> > Sent: Saturday, August 06, 2011 7:46 AM
> > To: alan.r.hill@...
> > Subject: UHFSDR full kits
> >
> >
> >
> > Hi Alan,
> >
> >
> >
> > Can I place an order for the UHFSDR kit, or are they all committed? If
> it's
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> >
> >
> > Regards,
> >
> >
> >
> > Andy G8DQE/VK2DQE
> >
>
> ****
>
> ** **
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> ** **
>
> ****
>
>

291. RE: Possible Si570 purchase

Yahoo group: UHFSDR
Date: 2011-08-08 15:30:56 UTC
From: The Silver Fox
Topic: 291 Message: 291
Attachments: 1 described; binary payloads are missing from this source WARC

This is what I am ordering. The chip covers the entire range of Si570 frequencies but check the specification for yourselves to ensure that it suits your needs.

73’s

Alan – W6ARH

cid:image001.png@01CC51CF.0D38D410

292. RE: [UHFSDR] RE: Possible Si570 purchase

Yahoo group: UHFSDR
Date: 2011-08-08 15:47:53 UTC
From: MIKE DURKIN
Topic: 291 Message: 292
Attachments: 1 described; binary payloads are missing from this source WARC

dang, I think that's the nicest you can get for but decent price. if I had the money I would get another board in a heartbeat.
I'm still looking for a micro diaplexer that cuts around 480mhz .... there probably isn't one.

Mike KC7NOA

To: flky661@...
CC: UHFSDR@yahoogroups.com
From: alan.r.hill@...
Date: Mon, 8 Aug 2011 08:30:56 -0700
Subject: [UHFSDR] RE: Possible Si570 purchase

This is what I am ordering. The chip covers the entire range of Si570 frequencies but check the specification for yourselves to ensure that it suits your needs.
73’sAlan – W6ARH

293. Re: [UHFSDR] RE: Possible Si570 purchase

Yahoo group: UHFSDR
Date: 2011-08-08 15:54:59 UTC
From: Marcel pitzini
Topic: 291 Message: 293
Attachments: 1 described; binary payloads are missing from this source WARC

Thanks Alan. I need to order one. I guess Paypal with your email adress?

Thanks,

Marcel W5BJV

On Mon, Aug 8, 2011 at 5:30 PM, The Silver Fox <alan.r.hill@...>wrote:

> **
>
>
> This is what I am ordering. The chip covers the entire range of Si570
> frequencies but check the specification for yourselves to ensure that it
> suits your needs.****
>
> 73’s****
>
> Alan – W6ARH****
>
> [image: cid:image001.png@01CC51CF.0D38D410]****
>
>

294. RE: [UHFSDR] RE: Possible Si570 purchase

Yahoo group: UHFSDR
Date: 2011-08-08 16:53:58 UTC
From: The Silver Fox
Topic: 291 Message: 294
Attachments: 1 described; binary payloads are missing from this source WARC

Yes. Paypal to my email address. Before you do, consider that it may be six weeks or more before I receive the chips for mailing.

73's

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Marcel pitzini
Sent: Monday, August 08, 2011 8:55 AM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] RE: Possible Si570 purchase

Thanks Alan. I need to order one. I guess Paypal with your email adress?

Thanks,

Marcel W5BJV

On Mon, Aug 8, 2011 at 5:30 PM, The Silver Fox <alan.r.hill@...> wrote:

This is what I am ordering. The chip covers the entire range of Si570 frequencies but check the specification for yourselves to ensure that it suits your needs.

73's

Alan - W6ARH

cid:image001.png@01CC51CF.0D38D410

295. Re: [UHFSDR] RE: Possible Si570 purchase

Yahoo group: UHFSDR
Date: 2011-08-08 17:05:33 UTC
From: Marcel pitzini
Topic: 291 Message: 295
Attachments: 1 described; binary payloads are missing from this source WARC

That's fine with me Alan. It will give me sometime to assemble the rest of the kit....
I will send it later today.

73 Thanks,

Marcel

On Mon, Aug 8, 2011 at 6:53 PM, The Silver Fox <alan.r.hill@...>wrote:

> **
>
>
> Yes. Paypal to my email address. Before you do, consider that it may be
> six weeks or more before I receive the chips for mailing.****
>
> 73’s****
>
> Alan – W6ARH****
>
> ** **
>
> *From:* UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] *On Behalf
> Of *Marcel pitzini
> *Sent:* Monday, August 08, 2011 8:55 AM
> *To:* UHFSDR@yahoogroups.com
> *Subject:* Re: [UHFSDR] RE: Possible Si570 purchase****
>
> ** **
>
> ****
>
> Thanks Alan. I need to order one. I guess Paypal with your email adress?
>
> Thanks,
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> Marcel W5BJV
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> ****
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> On Mon, Aug 8, 2011 at 5:30 PM, The Silver Fox <alan.r.hill@...>
> wrote:****
>
> ****

>
> This is what I am ordering. The chip covers the entire range of Si570
> frequencies but check the specification for yourselves to ensure that it
> suits your needs.****
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> 73’s****
>
> Alan – W6ARH****
>
> [image: cid:image001.png@01CC51CF.0D38D410]****
>
> ** **
>
> ****
>
>

296. Re: [UHFSDR] Re: UHFSDR full kits

Yahoo group: UHFSDR
Date: 2011-08-08 23:48:56 UTC
From: Cary Kempston
Topic: 276 Message: 296

I think the full kit idea is very cool. I'll buy one, and am happy to prepay. I'm still working on the board/partial kit, but could use a full kit.

73,
Cary
KJ6FON

On Sun, Aug 7, 2011 at 5:46 PM, The Silver Fox <alan.r.hill@...>wrote:

> **
>
>
> I have sold 30 full kits so far but have been discouraged with the
> criticism and apparent lack of interest from a group with so many members.
> However, until the demand is truly dead, I will continue to offer them as
> long as I can.****
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> Prepayment does enable me to have more faith and more accurately gauge the
> demand. I do not want to nickel and dime the company providing the Si570's
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> I appreciate any support in keeping the miniscule pipeline going. I will
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> $190 US and $194 DX.****
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> Thanks and 73's****
>
> Alan – W6ARH****
>
> ** **
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> *From:* UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] *On Behalf
> Of *Andrew Lees
> *Sent:* Sunday, August 07, 2011 4:12 PM
> *To:* UHFSDR@yahoogroups.com
> *Subject:* RE: [UHFSDR] Re: UHFSDR full kits****
>
> ** **
>
> ****
>
> Alan,
>
> I am more than happy to pre-pay for a kit if that will increase batch size
> and improve access. It will add to your guaranteed orders, and if anything

> does go awry with the kits you can always do a paypal refund. If the
> softrock experience is any guide, you will be bombarded with kit orders!
>
> Are you planning on including the PCB in the kits?
>
> Regards,
>
> Andy G8DQE/VK2DQE
>
> On Sun, 2011-08-07 at 11:55 -0700, The Silver Fox wrote:****
>
> ****
>
> I am ordering the Si570’s to allow the production of Full Kits. I cannot
> afford to front the money for a larger order but I am willing to start a
> pipeline of availability for the Si570’s. It is an issue of cash flow.
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> So, the game plan is to support a group of ten and then consider another
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> Alan – W6ARH
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> ****
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> Are you moving into a 'group-buy' direction or are you willing to have
> stock of the kits for future purchases?
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> 73,

> Christos SV1EIA
>
> --- In UHFSDR@yahoogroups.com, "The Silver Fox" <alan.r.hill@...> wrote:
> >
> > Simon,
> >
> > Sure. The current estimate is $66. This includes taxes, shipping,
> > paypal costs, and mailing costs.
> >
> >
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> > From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf
> Of
> > Simon Eatough
> > Sent: Saturday, August 06, 2011 11:28 PM
> > To: UHFSDR@yahoogroups.com
> > Subject: Re: [UHFSDR] RE: UHFSDR full kits
> >
> >
> >
> >
> >
> > Alan can I place a order for a Si570 ?
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> > Thanks
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> > Simon
> >
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> >
> >
> >
> > On Sun, Aug 7, 2011 at 3:53 AM, The Silver Fox <alan.r.hill@...>
> > wrote:
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> > 73's
> >
> > Alan - W6ARH
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> > From: Andy Lees [mailto:andrewl.oz@...]
> > Sent: Saturday, August 06, 2011 7:46 AM
> > To: alan.r.hill@...
> > Subject: UHFSDR full kits
> >
> >
> >
> > Hi Alan,
> >
> >
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> > Can I place an order for the UHFSDR kit, or are they all committed? If
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> > Andy G8DQE/VK2DQE
> >
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> ****
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> ** **
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> ** **
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> ****
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>
>

297. Transformer

Yahoo group: UHFSDR
Date: 2011-08-09 03:54:03 UTC
From: Michael
Topic: 297 Message: 297

Has any one tried/tested the wbc3-1tl(3:1) in place of the wbc2-1(2:1) ?

Mike KC7NOA

298. New file uploaded to UHFSDR

Yahoo group: UHFSDR
Date: 2011-08-09 08:38:51 UTC
From: UHFSDR@yahoogroups.com
Topic: 2 Message: 298

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the UHFSDR
group.

File : /SV1EIA/Connections_USB2SDRtoUHFSDR.pdf
Uploaded by : sv1eia <sv1eia@...>
Description : USB2SDR UHFSDR Connections

You can access this file at the URL:
http://groups.yahoo.com/group/UHFSDR/files/SV1EIA/Connections_USB2SDRtoUHFSDR.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

sv1eia <sv1eia@...>

299. USB2SDR/UHFSDR

Yahoo group: UHFSDR
Date: 2011-08-11 10:03:52 UTC
From: Jean Marie F6ETU
Topic: 299 Message: 299

Hello,

I wish to share with you my experience with the combination of USB2SDR / UHFSDR.
UHFSDR wiring, using the installation instructions and control is easy and quickly becomes a plaisir. J've used for testing the USB2SDR: Si570; for the test is working properly, use a cable as short as possible between both cards for the link I2c.
After a laborious handling of PowerSDR due to my English "Beginner", the use of USB2SDR with UHFSDR is simple and performance is outstanding.

73's Jean Marie,

F6ETU,

300. Board levels

Yahoo group: UHFSDR
Date: 2011-08-13 02:28:14 UTC
From: keestheham
Topic: 300 Message: 300

What is the current board level and is there a list of differences (if any). I'm finally going to start putting my partial kit together.

73 Kees K5BCQ

301. RE: [UHFSDR] Board levels

Yahoo group: UHFSDR
Date: 2011-08-13 02:49:45 UTC
From: MIKE DURKIN
Topic: 300 Message: 301

I don't know but was wondering if you had seen the video I sent you?

To: UHFSDR@yahoogroups.com
From: windy10605@...
Date: Sat, 13 Aug 2011 02:28:14 +0000
Subject: [UHFSDR] Board levels

What is the current board level and is there a list of differences (if any). I'm finally going to start putting my partial kit together.

73 Kees K5BCQ

302. Re: [UHFSDR] Board levels

Yahoo group: UHFSDR
Date: 2011-08-13 02:57:09 UTC
From: Dave
Topic: 300 Message: 302

Kees:
The current board is UHFSDR_r1a. r1 added the extra inverter and header to select polarity of the rf switches, the a, I think(I didn't save the r1) changed one footprint.

Dave - WB6DHW
<http://wb6dhw.com>

On 8/12/2011 7:28 PM, keestheham wrote:
>
> What is the current board level and is there a list of differences (if
> any). I'm finally going to start putting my partial kit together.
>
> 73 Kees K5BCQ
>
>

303. Farnell CSV file

Yahoo group: UHFSDR
Date: 2011-08-14 05:58:25 UTC
From: brainerdd
Topic: 303 Message: 303

I uploaded a modified UHFSDR_BOM_Farnell.CSV file. In the last 3 months, Farnell discontinued 2 items and had to find replacements.
To use the file, download from the for sale page. Open in a text editor. Select the text and copy. On Farnell's UK site, you need to create an account and log in. You can then Paste the data there and it will be entered into the order basket.

Dave - WB6DHW
<http://wb6dhw.com>

304. Re: [UHFSDR] Farnell CSV file

Yahoo group: UHFSDR
Date: 2011-08-14 06:37:07 UTC
From: Dave
Topic: 303 Message: 304

I compared the Digikey and UK Farnell files. Farnell did not have
8.87 ohm resisters for R31 to 34. You can use 10 ohm instead. The
mismatch in the 3dB pads will not be high enough to make any
difference(I used 10 ohm resisters on the prototype).
I also checked the Digikey file and all parts are still in stock.

Dave - WB6DHW
<http://wb6dhw.com>

On 8/13/2011 10:58 PM, brainerdd wrote:
>
> I uploaded a modified UHFSDR_BOM_Farnell.CSV file. In the last 3
> months, Farnell discontinued 2 items and had to find replacements.
> To use the file, download from the for sale page. Open in a text
> editor. Select the text and copy. On Farnell's UK site, you need to
> create an account and log in. You can then Paste the data there and it
> will be entered into the order basket.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
>
>

305. UHFSDR Board Suggestions

Yahoo group: UHFSDR
Date: 2011-08-14 16:38:27 UTC
From: nwplouff
Topic: 305 Message: 305

Having just assembled a UHFSDR board, I am going to be so bold as to offer a few suggestions for improvement.

1. In the document package, provide a view of the board showing the orientation of all semiconductors and polarized capacitors.

2. If another PCB version is ever created, add pads for power supply leads with holes large enough for, say, 18 gauge wire. The holes for the 0.1 inch header strip are inadequate for wire leads.

3. By far the hardest part to solder was the CDSU101A diode. Consider substituting a larger part or increasing the clearance around the part.

After hearing scary stories about working with surface mount parts, and becoming a little fearful of screwing it up, for me, assembling the UHFSDR board turned out to be surprisingly straightforward. Tedious, but straightforward.

Wes AC8JF

306. Si570's

Yahoo group: UHFSDR
Date: 2011-08-15 18:51:00 UTC
From: The Silver Fox
Topic: 306 Message: 306

Good news. I have finalized the purchase of the Si570's. Thanks to all who supported this effort.

73's

Alan - W6ARH

307. Kit to UK

Yahoo group: UHFSDR
Date: 2011-08-16 22:44:30 UTC
From: bob_bournemouth
Topic: 307 Message: 307

Hi,
Can you confirm the cost of the kit with Si570 with shipping to the UK?
Kindest regards

Bob
G8NSV

308. RE: [UHFSDR] Kit to UK

Yahoo group: UHFSDR
Date: 2011-08-16 23:07:28 UTC
From: The Silver Fox
Topic: 307 Message: 308

$194USD

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of bob_bournemouth
Sent: Tuesday, August 16, 2011 3:45 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Kit to UK

Hi,
Can you confirm the cost of the kit with Si570 with shipping to the UK?
Kindest regards

Bob
G8NSV

309. Si570 Purchase & Full Kit prices

Yahoo group: UHFSDR
Date: 2011-08-16 23:47:21 UTC
From: The Silver Fox
Topic: 309 Message: 309

Since I now have a more or less firm price for the Si570AAA000514DG I have to announce that the price has increased. The chip cost will now be $75. All orders to date will be honored at the previous price. They ended up being $10 more than I anticipated due to a new layer of bureaucracy in the order process. I am going to keep to the new price for the full kit until I have to restock. I expect to have to raise its price as well whenever that happens.

73's

Alan - W6ARH

310. Re: [UHFSDR] Si570 Purchase & Full Kit prices

Yahoo group: UHFSDR
Date: 2011-08-17 23:28:23 UTC
From: Andrew Lees
Topic: 309 Message: 310

Alan,

Having inventoried my components that I've picked up over time with the UHFSDR or similar in mind, I find I have around 60% of what's needed for the USHSDR + I have an r1 pcb, so I think I'll go with just an SI570. Could you tell me the price of an SI570 shipped DX, please?

Regards,

Andy, VK2DQE/G8DQE

On Tue, 2011-08-16 at 16:47 -0700, The Silver Fox wrote:

>
>
> Since I now have a more or less firm price for the Si570AAA000514DG I
> have to announce that the price has increased. The chip cost will now
> be $75. All orders to date will be honored at the previous price.
> They ended up being $10 more than I anticipated due to a new layer of
> bureaucracy in the order process. I am going to keep to the new price
> for the full kit until I have to restock. I expect to have to raise
> its price as well whenever that happens.
>
>
>
> 73’s
>
> Alan – W6ARH
>
>
>

311. RE: [UHFSDR] Si570 Purchase & Full Kit prices

Yahoo group: UHFSDR
Date: 2011-08-17 23:48:41 UTC
From: The Silver Fox
Topic: 309 Message: 311

As mentioned the cost to you is $75. The price to ship DX is not significantly different than US so I am not going to worry about small change.

73’s

Alan – W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Andrew Lees
Sent: Wednesday, August 17, 2011 4:28 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Si570 Purchase & Full Kit prices

Alan,

Having inventoried my components that I've picked up over time with the UHFSDR or similar in mind, I find I have around 60% of what's needed for the USHSDR + I have an r1 pcb, so I think I'll go with just an SI570. Could you tell me the price of an SI570 shipped DX, please?

Regards,

Andy, VK2DQE/G8DQE

On Tue, 2011-08-16 at 16:47 -0700, The Silver Fox wrote:

Since I now have a more or less firm price for the Si570AAA000514DG I have to announce that the price has increased. The chip cost will now be $75. All orders to date will be honored at the previous price. They ended up being $10 more than I anticipated due to a new layer of bureaucracy in the order process. I am going to keep to the new price for the full kit until I have to restock. I expect to have to raise its price as well whenever that happens.

73’s

Alan – W6ARH

312. Re: Kit to UK

Yahoo group: UHFSDR
Date: 2011-08-18 18:38:02 UTC
From: bob_bournemouth
Topic: 307 Message: 312

Many thanks
Bob
--- In UHFSDR@yahoogroups.com, "The Silver Fox" <alan.r.hill@...> wrote:
>
> $194USD
>
>
>
> From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
> bob_bournemouth
> Sent: Tuesday, August 16, 2011 3:45 PM
> To: UHFSDR@yahoogroups.com
> Subject: [UHFSDR] Kit to UK
>
>
>
>
>
> Hi,
> Can you confirm the cost of the kit with Si570 with shipping to the UK?
> Kindest regards
>
> Bob
> G8NSV
>

313. Power SDR Frequency coverage

Yahoo group: UHFSDR
Date: 2011-08-18 23:20:01 UTC
From: bob_bournemouth
Topic: 313 Message: 313

Hi All,
Just a quick question. I am going to build one of these brilliant kits, I have been playing around with Power SDR and have a question about the frequency coverage. The kit covers from 1.75 to 700mhz, however power sdr v 1.12.20 wont let me go above 52mhz.
How do you achieve the broadband coverage this board offers?
I have found that if I enable a transvertor for 144 mhz with an offset of zero I can enter frequencies in the 2M band, and also 433 etc if enabled as a transvertor.
How is it possible to have broadband receive over the range the kit covers?
Please can someone let me know. Obviously i only need TX on the ham bands but would like the option of the full coverage receive that this kit gives.
Many Thanks

Bob
G8NSV

314. RE: [UHFSDR] Power SDR Frequency coverage

Yahoo group: UHFSDR
Date: 2011-08-19 00:36:15 UTC
From: The Silver Fox
Topic: 313 Message: 314

Nothing stops the Si570 from covering its full range. However, the filters will either block the RF or degrade the incoming and outgoing signal. Someone else can specify if there are any other restraints. Note that the Si570 comes in many flavors and frequency coverage is one of the options.

73's

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of bob_bournemouth
Sent: Thursday, August 18, 2011 4:20 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Power SDR Frequency coverage

Hi All,
Just a quick question. I am going to build one of these brilliant kits, I have been playing around with Power SDR and have a question about the frequency coverage. The kit covers from 1.75 to 700mhz, however power sdr v 1.12.20 wont let me go above 52mhz.
How do you achieve the broadband coverage this board offers?
I have found that if I enable a transvertor for 144 mhz with an offset of zero I can enter frequencies in the 2M band, and also 433 etc if enabled as a transvertor.
How is it possible to have broadband receive over the range the kit covers?
Please can someone let me know. Obviously i only need TX on the ham bands but would like the option of the full coverage receive that this kit gives.
Many Thanks

Bob
G8NSV

315. Re: [UHFSDR] Power SDR Frequency coverage

Yahoo group: UHFSDR
Date: 2011-08-19 01:38:52 UTC
From: Dave
Topic: 313 Message: 315

For those interested in LF operation, Silicon Labs has the Si514
which covers .1 to 250MHz. Unfortunately, rather than having SDA and
SCL on the end pins like the Si570, they are on pins 1 and 2. This
would require a cut and reqire on the pcb.

Dave - WB6DHW
<http://wb6dhw.com>

On 8/18/2011 5:36 PM, The Silver Fox wrote:
>
> Nothing stops the Si570 from covering its full range. However, the
> filters will either block the RF or degrade the incoming and outgoing
> signal. Someone else can specify if there are any other restraints.
> Note that the Si570 comes in many flavors and frequency coverage is
> one of the options.
>
> 73's
>
> Alan -- W6ARH
>
> *From:*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] *On
> Behalf Of *bob_bournemouth
> *Sent:* Thursday, August 18, 2011 4:20 PM
> *To:* UHFSDR@yahoogroups.com
> *Subject:* [UHFSDR] Power SDR Frequency coverage
>
> Hi All,
> Just a quick question. I am going to build one of these brilliant
> kits, I have been playing around with Power SDR and have a question
> about the frequency coverage. The kit covers from 1.75 to 700mhz,
> however power sdr v 1.12.20 wont let me go above 52mhz.
> How do you achieve the broadband coverage this board offers?
> I have found that if I enable a transvertor for 144 mhz with an offset
> of zero I can enter frequencies in the 2M band, and also 433 etc if
> enabled as a transvertor.
> How is it possible to have broadband receive over the range the kit
> covers?
> Please can someone let me know. Obviously i only need TX on the ham
> bands but would like the option of the full coverage receive that this
> kit gives.
> Many Thanks
>
> Bob
> G8NSV
>

>

316. RE: [UHFSDR] Power SDR Frequency coverage

Yahoo group: UHFSDR
Date: 2011-08-19 02:53:04 UTC
From: MIKE DURKIN
Topic: 313 Message: 316

The combining transformer is rated to 500mhz (going by memory here) .... I have asked if anyone has tried the 3:1 that's rated to 900mhz .... didn't notice in response , sooner or later I'll try it myself ...

To: UHFSDR@yahoogroups.com
From: alan.r.hill@...
Date: Thu, 18 Aug 2011 17:36:15 -0700
Subject: RE: [UHFSDR] Power SDR Frequency coverage

Nothing stops the Si570 from covering its full range. However, the filters will either block the RF or degrade the incoming and outgoing signal. Someone else can specify if there are any other restraints. Note that the Si570 comes in many flavors and frequency coverage is one of the options.
73’sAlan – W6ARH From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of bob_bournemouth
Sent: Thursday, August 18, 2011 4:20 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Power SDR Frequency coverage Hi All,
Just a quick question. I am going to build one of these brilliant kits, I have been playing around with Power SDR and have a question about the frequency coverage. The kit covers from 1.75 to 700mhz, however power sdr v 1.12.20 wont let me go above 52mhz.
How do you achieve the broadband coverage this board offers?
I have found that if I enable a transvertor for 144 mhz with an offset of zero I can enter frequencies in the 2M band, and also 433 etc if enabled as a transvertor.
How is it possible to have broadband receive over the range the kit covers?
Please can someone let me know. Obviously i only need TX on the ham bands but would like the option of the full coverage receive that this kit gives.
Many Thanks

Bob
G8NSV

317. Re: Power SDR Frequency coverage

Yahoo group: UHFSDR
Date: 2011-08-19 03:45:11 UTC
From: rons_pda
Topic: 313 Message: 317

I think Bob is asking more of a software question about Power SDR. At least that's how I read it. Could be wrong.

318. Re: Power SDR Frequency coverage

Yahoo group: UHFSDR
Date: 2011-08-19 05:54:55 UTC
From: sv1eia
Topic: 313 Message: 318

Hi Bob,

Although it has passed quite some time and versions since I remember that this is configurable, what you refer to is the max frequency that PowerSDR-IQ can go.
That can be configured from PowerSDR-IQ setup here
-> Setup->General->Hardware Config->Si570->MaxFreq Hz

that field gets what is the Si570's device maximum frequency, so if you have a 1400MHz Si570 you should put there 1400000000
then by changing the VFO dial your frequency can go up to MaxFreq/Divider whereas Divider is always 2 for UHFSDR.

73,
Christos SV1EIA

--- In UHFSDR@yahoogroups.com, "bob_bournemouth" <g8nsv@...> wrote:
>
> Hi All,
> Just a quick question. I am going to build one of these brilliant kits, I have been playing around with Power SDR and have a question about the frequency coverage. The kit covers from 1.75 to 700mhz, however power sdr v 1.12.20 wont let me go above 52mhz.
> How do you achieve the broadband coverage this board offers?
> I have found that if I enable a transvertor for 144 mhz with an offset of zero I can enter frequencies in the 2M band, and also 433 etc if enabled as a transvertor.
> How is it possible to have broadband receive over the range the kit covers?
> Please can someone let me know. Obviously i only need TX on the ham bands but would like the option of the full coverage receive that this kit gives.
> Many Thanks
>
> Bob
> G8NSV
>

319. T1 revisited

Yahoo group: UHFSDR
Date: 2011-08-27 18:18:52 UTC
From: MIKE DURKIN
Topic: 319 Message: 319

Im wondering what is the impedance of the output of the DBM's are ... is T1 the optimum 2:1 or would something else be better?

Mike KC7NOA

320. Re: [UHFSDR] T1 revisited

Yahoo group: UHFSDR
Date: 2011-08-27 22:28:36 UTC
From: Dave
Topic: 319 Message: 320

Mike:
The DBM's are 50 ohm.

Dave - WB6DHW
<http://wb6dhw.com>

On 8/27/2011 11:18 AM, MIKE DURKIN wrote:
>
> Im wondering what is the impedance of the output of the DBM's are ...
> is T1 the optimum 2:1 or would something else be better?
>
> Mike KC7NOA
>
>

321. Full Kit Purchase

Yahoo group: UHFSDR
Date: 2011-09-18 19:56:29 UTC
From: Hank
Topic: 321 Message: 321

Alan,

I was hoping to see if Full Kits were still available for purchase. I am interested in buying one. Can you send me current kit price and how to pay.

73,
Hank
wz3hmt

322. RE: [UHFSDR] Full Kit Purchase

Yahoo group: UHFSDR
Date: 2011-09-18 20:30:07 UTC
From: The Silver Fox
Topic: 321 Message: 322

Yes. You can still order a kit from me. $190 US and $194 DX. Allow at least two weeks prior to shipment and paypal the money to alan.r.hill@....

73's

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Hank
Sent: Sunday, September 18, 2011 12:56 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Full Kit Purchase

Alan,

I was hoping to see if Full Kits were still available for purchase. I am interested in buying one. Can you send me current kit price and how to pay.

73,
Hank
wz3hmt

323. Digi-Key Link for BPF board

Yahoo group: UHFSDR
Date: 2011-09-19 03:17:06 UTC
From: phill104us
Topic: 323 Message: 323

on the WB6DHW site there is a link to Digi-Key for the BOM for the bandpass filter board. IT takes me to Digi-Key and I can log in but unable to access the BOM. Can the Digi-key BOM wizard be used to automatically order the parts ?

324. Re: [UHFSDR] Digi-Key Link for BPF board

Yahoo group: UHFSDR
Date: 2011-09-19 10:07:47 UTC
From: Dave
Topic: 323 Message: 324

Phill:
Yes, you can import the BOM for ordering. It looks like I need to redo the BOM on DigiKey. They made a big change quite awhile ago and I didn't put a new BOM up. The only one there from me is for the UHFSDR.

Dave - WB6DHW
<http://wb6dhw.com>

On 9/18/2011 8:17 PM, phill104us wrote:
>
> on the WB6DHW site there is a link to Digi-Key for the BOM for the
> bandpass filter board. IT takes me to Digi-Key and I can log in but
> unable to access the BOM. Can the Digi-key BOM wizard be used to
> automatically order the parts ?
>
>
>
>

325. Re: Digi-Key Link for BPF board

Yahoo group: UHFSDR
Date: 2011-09-19 15:53:30 UTC
From: phill104us
Topic: 323 Message: 325

Tnx Dave

326. Si570's

Yahoo group: UHFSDR
Date: 2011-09-20 19:01:12 UTC
From: The Silver Fox
Topic: 306 Message: 326

The Si570's for the kits have arrived and all orders have been mailed. My thanks again to all who pre-ordered and for their patience.

73's

Alan - W6ARH

327. Re: Si570's

Yahoo group: UHFSDR
Date: 2011-09-20 19:19:18 UTC
From: Tony
Topic: 306 Message: 327

Warm up the soldering irons!!!

328. RE: [UHFSDR] Re: Si570's

Yahoo group: UHFSDR
Date: 2011-09-20 19:54:27 UTC
From: The Silver Fox
Topic: 306 Message: 328

A P.S. to those who purchased the chips. They are being shipped in an envelope with little documentation. A warning for you. These are electrostatic sensitive chips so please use the normal precautions when opening the packaging.

73's

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Tony
Sent: Tuesday, September 20, 2011 12:19 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Re: Si570's

Warm up the soldering irons!!!

329. RG174 Jumper

Yahoo group: UHFSDR
Date: 2011-10-08 23:23:51 UTC
From: Sid Boyce
Topic: 329 Message: 329

I was checking around my system and found a photo of the mounting of the jumper under the board and out of the way of top side components.
It's not my original photo, but it's how I've wired it on both of my UHFSDR's.
Thanks to the guy who shared the tip.
You'll find it under Photos --> G3VBV.
73 ... Sid.
--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

330. RE: [UHFSDR] RG174 Jumper

Yahoo group: UHFSDR
Date: 2011-10-09 00:03:47 UTC
From: MIKE DURKIN
Topic: 329 Message: 330

I used micro coax found in wireless routers ... grey stuff .... I have alot of it. Also used it for Si570 signal controll .... about 10" length.

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: sboyce@...
Date: Sun, 9 Oct 2011 00:23:51 +0100
Subject: [UHFSDR] RG174 Jumper

I was checking around my system and found a photo of the mounting of the

jumper under the board and out of the way of top side components.

It's not my original photo, but it's how I've wired it on both of my

UHFSDR's.

Thanks to the guy who shared the tip.

You'll find it under Photos --> G3VBV.

73 ... Sid.

--

Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot

Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support

Senior Staff Specialist, Cricket Coach

Microsoft Windows Free Zone - Linux used for all Computing Tasks

331. Bandpass filters by WB6DHW

Yahoo group: UHFSDR
Date: 2011-10-09 15:15:33 UTC
From: MIKE DURKIN
Topic: 331 Message: 331

Hello all .... is there any one using the bandpass filters from WB6DHW and if so did you use his part values .... if not, could you list your part values?? Mike KC7NOA

332. Re: TX driver

Yahoo group: UHFSDR
Date: 2011-10-11 03:53:33 UTC
From: Eric
Topic: 49 Message: 332

My kit came with a MMG3H21NT1.

Has anyone achieved the full 1.7-700 MHz frequency range?

What this the current preferred solution for providing wideband bias to this part?

KC4YOE
Eric

--- In UHFSDR@yahoogroups.com, "rainerfeldkamp" <feldkamp@...> wrote:
>
> Dave:
>
> Thank you for the excellent tip.
>
> I ended up in simply cutting the pad for L1 adjacent C14 in two halves and bridging the gap with a 3.3µH inductor as per the assembly manual.
>
> The driver is now linear within 1.6dB from 3.5M to at least 450M (I did not measure any higher).
>
> Congratulations for the excellent design and thank you for your help.
>
> Regards,
>
> Rainer DJ6OA
>
> --- In UHFSDR@yahoogroups.com, Dave - WB6DHW <brainerd@> wrote:
> >
> > Rainer:
> > You are correct. The impedance of L1 becomes too low at low frequency.
> > Either or both of the following work:
> > Replace L1 with a 3.3 uH
> > Remove C12,C13,C14.
> > If you plan on using the UHFSDR both at 450 MHz and 80 or 160 Meters, the
> > inductor at L1 must still have a good RF impedance at 450 MHz(ie the self
> > resonance frequency needs to be in the VHF range). Yaesu, in the FT8X7 designs
> > that have a 5W amp that covers from 160M thru 450 MHz use 2 inductors in series
> > - a 10 uH for low frequencies and something under .1 uH for VHF/UHF where the 10
> > uH looks like a capacitor.
> >
> > Dave - WB6DHW
> > <http://wb6dhw.com>
> >
> > On 1/29/2011 8:31 PM, rainerfeldkamp wrote:
> > > Hi all

> > >
> > > After completing the UHFSDR starting with the partial kit, I am performing some measurements. Everything went fine so far, apart from the MMG3H21 driver.
> > >
> > > The measurements confirm Step 243 of the assembly manual in that the MMG3H21 starts severely distorting below about 15 MHz. I am considering cutting the trace between C13 and C14 and replacing it by an inductor of 3.3 µH.
> > >
> > > Has anybody a better idea to decrease the lower frequency limit of the TX driver without impairing the upper limit (ERA-5 with larger supply resistance ?).
> > >
> > > Any hint would be highly appreciated.
> > >
> > > VY37
> > >
> > > Rainer, DJ6OA
> > >
> > >
> > >
> >
>

333. Re: [UHFSDR] Re: TX driver

Yahoo group: UHFSDR
Date: 2011-10-11 04:14:25 UTC
From: Dave
Topic: 49 Message: 333

Eric:
The data sheet recommends supplying 5V with no dropping resister for
a bias of 90 ma. So, eith use a 7805 for U3 and 0 ohms for R2, or if
you want to use the 7808, then make R2 33 ohms.
I have gone above 450MHz, but not up to 700 MHz. I have also used it
on 80 and 160 meters. There are some holes in the 500-600 MHz region
due to the Si570 holes. The limitation on the frequency is the Si570.
The next limitation is the ECL flip flops. They are rated for a minimum
max clock freq of 4 GHZ. That would allow operation up to at least 2
GHz with a different LO. The lower limit is due to the Si570. The
lowest frequency they can be programmed to is about 3.5 MHz.

Dave - WB6DHW
<http://wb6dhw.com>

On 10/10/2011 8:53 PM, Eric wrote:
>
> My kit came with a MMG3H21NT1.
>
> Has anyone achieved the full 1.7-700 MHz frequency range?
>
> What this the current preferred solution for providing wideband bias
> to this part?
>
> KC4YOE
> Eric
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
> "rainerfeldkamp" <feldkamp@...> wrote:
> >
> > Dave:
> >
> > Thank you for the excellent tip.
> >
> > I ended up in simply cutting the pad for L1 adjacent C14 in two
> halves and bridging the gap with a 3.3?H inductor as per the assembly
> manual.
> >
> > The driver is now linear within 1.6dB from 3.5M to at least 450M (I
> did not measure any higher).
> >
> > Congratulations for the excellent design and thank you for your help.
> >
> > Regards,
> >

> > Rainer DJ6OA
> >
> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
> Dave - WB6DHW <brainerd@> wrote:
> > >
> > > Rainer:
> > > You are correct. The impedance of L1 becomes too low at low
> frequency.
> > > Either or both of the following work:
> > > Replace L1 with a 3.3 uH
> > > Remove C12,C13,C14.
> > > If you plan on using the UHFSDR both at 450 MHz and 80 or 160
> Meters, the
> > > inductor at L1 must still have a good RF impedance at 450 MHz(ie
> the self
> > > resonance frequency needs to be in the VHF range). Yaesu, in the
> FT8X7 designs
> > > that have a 5W amp that covers from 160M thru 450 MHz use 2
> inductors in series
> > > - a 10 uH for low frequencies and something under .1 uH for
> VHF/UHF where the 10
> > > uH looks like a capacitor.
> > >
> > > Dave - WB6DHW
> > > <http://wb6dhw.com>
> > >
> > > On 1/29/2011 8:31 PM, rainerfeldkamp wrote:
> > > > Hi all
> > > >
> > > > After completing the UHFSDR starting with the partial kit, I am
> performing some measurements. Everything went fine so far, apart from
> the MMG3H21 driver.
> > > >
> > > > The measurements confirm Step 243 of the assembly manual in that
> the MMG3H21 starts severely distorting below about 15 MHz. I am
> considering cutting the trace between C13 and C14 and replacing it by
> an inductor of 3.3 ?H.
> > > >
> > > > Has anybody a better idea to decrease the lower frequency limit
> of the TX driver without impairing the upper limit (ERA-5 with larger
> supply resistance ?).
> > > >
> > > > Any hint would be highly appreciated.
> > > >
> > > > VY37
> > > >
> > > > Rainer, DJ6OA
> > > >
> > > >
> > > >

> > >
> >
>
>

334. RE: [UHFSDR] Re: TX driver

Yahoo group: UHFSDR
Date: 2011-10-11 05:05:50 UTC
From: MIKE DURKIN
Topic: 49 Message: 334

Now im abit confused .... the schematic i have L1 is a 560nH. I have aprox 56mW up to 54mhz.... from there my scope starts getting unreliable ...

Im not sure at this moment what is installed for L1 .... Maybe it was the 3.3uH ...

So does it mater which one is first in series when this change is made?

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Mon, 10 Oct 2011 21:14:25 -0700
Subject: Re: [UHFSDR] Re: TX driver

Eric:

The data sheet recommends supplying 5V with no dropping resister for a bias of 90 ma. So, eith use a 7805 for U3 and 0 ohms for R2, or if you want to use the 7808, then make R2 33 ohms.

I have gone above 450MHz, but not up to 700 MHz. I have also used it on 80 and 160 meters. There are some holes in the 500-600 MHz region due to the Si570 holes. The limitation on the frequency is the Si570. The next limitation is the ECL flip flops. They are rated for a minimum max clock freq of 4 GHZ. That would allow operation up to at least 2 GHz with a different LO. The lower limit is due to the Si570. The lowest frequency they can be programmed to is about 3.5 MHz.

Dave - WB6DHW

<http://wb6dhw.com>

On 10/10/2011 8:53 PM, Eric wrote:

My kit came with a MMG3H21NT1.

Has anyone achieved the full 1.7-700 MHz frequency range?

What this the current preferred solution for providing wideband bias to this part?

KC4YOE

Eric

--- In UHFSDR@yahoogroups.com,
"rainerfeldkamp" <feldkamp@...> wrote:

>

> Dave:

>

> Thank you for the excellent tip.

>

> I ended up in simply cutting the pad for L1 adjacent
C14 in two halves and bridging the gap with a 3.3µH
inductor as per the assembly manual.

>

> The driver is now linear within 1.6dB from 3.5M to at
least 450M (I did not measure any higher).

>

> Congratulations for the excellent design and thank
you for your help.

>

> Regards,

>

> Rainer DJ6OA

>

> --- In UHFSDR@yahoogroups.com,
Dave - WB6DHW <brainerd@> wrote:

> >

> > Rainer:

> > You are correct. The impedance of L1 becomes too
low at low frequency.

> > Either or both of the following work:

> > Replace L1 with a 3.3 uH

> > Remove C12,C13,C14.

> > If you plan on using the UHFSDR both at 450 MHz
and 80 or 160 Meters, the

> > inductor at L1 must still have a good RF
impedance at 450 MHz(ie the self

> > resonance frequency needs to be in the VHF
range). Yaesu, in the FT8X7 designs

> > that have a 5W amp that covers from 160M thru
450 MHz use 2 inductors in series

> > - a 10 uH for low frequencies and something
under .1 uH for VHF/UHF where the 10

> > uH looks like a capacitor.

> >

> > Dave - WB6DHW

> > <http://wb6dhw.com>

> >

> > On 1/29/2011 8:31 PM, rainerfeldkamp wrote:

> > > Hi all

> > >

> > > After completing the UHFSDR starting with
the partial kit, I am performing some measurements.
Everything went fine so far, apart from the MMG3H21
driver.

> > >

> > > The measurements confirm Step 243 of the
assembly manual in that the MMG3H21 starts severely
distorting below about 15 MHz. I am considering cutting
the trace between C13 and C14 and replacing it by an
inductor of 3.3 µH.

> > >

> > > Has anybody a better idea to decrease the
lower frequency limit of the TX driver without impairing
the upper limit (ERA-5 with larger supply resistance ?).

> > >

> > > Any hint would be highly appreciated.

> > >

> > > VY37

> > >

> > > Rainer, DJ6OA

> > >

> > >

> > >

> >

>

335. Re: [UHFSDR] Re: TX driver

Yahoo group: UHFSDR
Date: 2011-10-11 05:51:19 UTC
From: Dave
Topic: 49 Message: 335

Mike:
The 3.3uH should be installed, otherwise the amp does not work below about 10 MHz. If both are used, order is not important. The 3.3uH works up through at least 2 meters and probably at 450 MHz. If you use a different part number, get the highest self resonant frequency(SRF) possible.

Dave - WB6DHW
<http://wb6dhw.com>

On 10/10/2011 10:05 PM, MIKE DURKIN wrote:
>
> Now im abit confused .... the schematic i have L1 is a 560nH. I have
> aprox 56mW up to 54mhz.... from there my scope starts getting
> unreliable ...
>
> Im not sure at this moment what is installed for L1 .... Maybe it was
> the 3.3uH ...
>
> So does it mater which one is first in series when this change is made?
>
> Mike KC7NOA
>
> ---
> To: UHFSDR@yahoogroups.com
> From: dave@...
> Date: Mon, 10 Oct 2011 21:14:25 -0700
> Subject: Re: [UHFSDR] Re: TX driver
>
> Eric:
> The data sheet recommends supplying 5V with no dropping resister for
> a bias of 90 ma. So, eith use a 7805 for U3 and 0 ohms for R2, or if
> you want to use the 7808, then make R2 33 ohms.
> I have gone above 450MHz, but not up to 700 MHz. I have also used it
> on 80 and 160 meters. There are some holes in the 500-600 MHz region
> due to the Si570 holes. The limitation on the frequency is the
> Si570. The next limitation is the ECL flip flops. They are rated for
> a minimum max clock freq of 4 GHZ. That would allow operation up to
> at least 2 GHz with a different LO. The lower limit is due to the
> Si570. The lowest frequency they can be programmed to is about 3.5 MHz.
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> Dave - WB6DHW
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> On 10/10/2011 8:53 PM, Eric wrote:

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> My kit came with a MMG3H21NT1.
>
> Has anyone achieved the full 1.7-700 MHz frequency range?
>
> What this the current preferred solution for providing wideband
> bias to this part?
>
> KC4YOE
> Eric
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
> "rainerfeldkamp" <feldkamp@...> <mailto:feldkamp@...> wrote:
> >
> > Dave:
> >
> > Thank you for the excellent tip.
> >
> > I ended up in simply cutting the pad for L1 adjacent C14 in two
> halves and bridging the gap with a 3.3?H inductor as per the
> assembly manual.
> >
> > The driver is now linear within 1.6dB from 3.5M to at least 450M
> (I did not measure any higher).
> >
> > Congratulations for the excellent design and thank you for your
> help.
> >
> > Regards,
> >
> > Rainer DJ6OA
> >
> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
> Dave - WB6DHW <brainerd@> wrote:
> > >
> > > Rainer:
> > > You are correct. The impedance of L1 becomes too low at low
> frequency.
> > > Either or both of the following work:
> > > Replace L1 with a 3.3 uH
> > > Remove C12,C13,C14.
> > > If you plan on using the UHFSDR both at 450 MHz and 80 or 160
> Meters, the
> > > inductor at L1 must still have a good RF impedance at 450
> MHz(ie the self
> > > resonance frequency needs to be in the VHF range). Yaesu, in
> the FT8X7 designs
> > > that have a 5W amp that covers from 160M thru 450 MHz use 2
> inductors in series
> > > - a 10 uH for low frequencies and something under .1 uH for

> VHF/UHF where the 10
> > > uH looks like a capacitor.
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> > > Dave - WB6DHW
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> > > > Hi all
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> that the MMG3H21 starts severely distorting below about 15 MHz. I
> am considering cutting the trace between C13 and C14 and replacing
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> > > > Has anybody a better idea to decrease the lower frequency
> limit of the TX driver without impairing the upper limit (ERA-5
> with larger supply resistance ?).
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> > > > Any hint would be highly appreciated.
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> > > > VY37
> > > >
> > > > Rainer, DJ6OA
> > > >
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>

336. Re: Full Kit Purchase

Yahoo group: UHFSDR
Date: 2011-10-14 20:30:05 UTC
From: moser.wilhelm
Topic: 321 Message: 336

--- In UHFSDR@yahoogroups.com, "The Silver Fox" <alan.r.hill@...> wrote:
>
> Yes. You can still order a kit from me. $190 US and $194 DX. Allow at
> least two weeks prior to shipment and paypal the money to
> alan.r.hill@...
>
> 73's
>
> Alan - W6ARH
>
>
>
> From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
> Hank
> Sent: Sunday, September 18, 2011 12:56 PM
> To: UHFSDR@yahoogroups.com
> Subject: [UHFSDR] Full Kit Purchase
>
>
>
>
>
> Alan,
>
> I was hoping to see if Full Kits were still available for purchase. I am
> interested in buying one. Can you send me current kit price and how to pay.
>
> 73,
> Hank
> wz3hmt
>
Alan,
can you please explain the meaning of

190 US and
194 DX

Chris told me that he will assemble one for me but I really want to know what to order an
I'm not a DX-er just a coder..

73, willi (no callsign yet)

337. Re: [UHFSDR] Re: Full Kit Purchase

Yahoo group: UHFSDR
Date: 2011-10-14 20:52:11 UTC
From: Dave
Topic: 321 Message: 337

190 US 194 DX means $190 if sent to a USA address, $194 if sent to a non-USA address. If Chris is assembling it, then the kit will, I assume, be sent to Chris who is in the USA. You then make arrangements with Chris to send the completed kit to you.

Dave - WB6DHW
<http://wb6dhw.com>

On 10/14/2011 1:30 PM, moser.wilhelm wrote:
>
>
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, "The
> Silver Fox" <alan.r.hill@...> wrote:
> >
> > Yes. You can still order a kit from me. $190 US and $194 DX. Allow at
> > least two weeks prior to shipment and paypal the money to
> > alan.r.hill@...
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> > 73's
> >
> > Alan - W6ARH
> >
> >
> >
> > From: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> [mailto:UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>] On
> Behalf Of
> > Hank
> > Sent: Sunday, September 18, 2011 12:56 PM
> > To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> > Subject: [UHFSDR] Full Kit Purchase
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> >
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> >
> > Alan,
> >
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> > 73,
> > Hank

> > wz3hmt
> >
> Alan,
> can you please explain the meaning of
>
> 190 US and
> 194 DX
>
> Chris told me that he will assemble one for me but I really want to
> know what to order an I'm not a DX-er just a coder..
>
> 73, willi (no callsign yet)
>
>

338. Re: [UHFSDR] Re: Full Kit Purchase

Yahoo group: UHFSDR
Date: 2011-10-14 21:20:04 UTC
From: lists@ke4nyv.com
Topic: 321 Message: 338

Dave,

Does the $190 include everything needed to assemble the basic board? If not, what is needed to complete. Very interested in a kit.

Thanks,
Jason Rausch - KE4NYV
RPC Electronics, LLC
www.rpc-electronics.com

--- On Fri, 10/14/11, Dave <dave@...> wrote:

From: Dave <dave@...m>
Subject: Re: [UHFSDR] Re: Full Kit Purchase
To: UHFSDR@yahoogroups.com
Date: Friday, October 14, 2011, 4:52 PM

190 US 194 DX means $190 if sent to a USA address, $194 if sent to a non-USA address. If Chris is assembling it, then the kit will, I assume, be sent to Chris who is in the USA. You then make arrangements with Chris to send the completed kit to you.

Dave - WB6DHW

<http://wb6dhw.com>

On 10/14/2011 1:30 PM, moser.wilhelm wrote:

--- In UHFSDR@yahoogroups.com,
"The Silver Fox" <alan.r.hill@...> wrote:

>

> Yes. You can still order a kit from me. $190 US and
$194 DX. Allow at

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money to

> alan.r.hill@...

>

> 73's

>

> Alan - W6ARH

>

>

>

> From: UHFSDR@yahoogroups.com
[mailto:UHFSDR@yahoogroups.com]
On Behalf Of

> Hank

> Sent: Sunday, September 18, 2011 12:56 PM

> To: UHFSDR@yahoogroups.com

> Subject: [UHFSDR] Full Kit Purchase

>

>

>

>

>

> Alan,

>

> I was hoping to see if Full Kits were still available
for purchase. I am

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> Hank

> wz3hmt

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can you please explain the meaning of

190 US and

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Chris told me that he will assemble one for me but I
really want to know what to order an I'm not a DX-er just
a coder..

73, willi (no callsign yet)

339. Re: [UHFSDR] Re: Full Kit Purchase

Yahoo group: UHFSDR
Date: 2011-10-14 21:30:44 UTC
From: Dave
Topic: 321 Message: 339

JASON:
Alan can correct me if I am wrong. The kit includes everything
except a case and< I believe, the coax connectors. It does include a
grade A Si570(by far the most expensive part).

Dave - WB6DHW
<http://wb6dhw.com>

On 10/14/2011 2:20 PM, lists@... wrote:
>
> Dave,
>
> Does the $190 include everything needed to assemble the basic board?
> If not, what is needed to complete. Very interested in a kit.
>
> Thanks,
> Jason Rausch - KE4NYV
> RPC Electronics, LLC
> www.rpc-electronics.com
>
> --- On *Fri, 10/14/11, Dave /<dave@...>/* wrote:
>
>
> From: Dave <dave@...>
> Subject: Re: [UHFSDR] Re: Full Kit Purchase
> To: UHFSDR@yahoogroups.com
> Date: Friday, October 14, 2011, 4:52 PM
>
>
>
> 190 US 194 DX means $190 if sent to a USA address, $194 if sent
> to a non-USA address. If Chris is assembling it, then the kit
> will, I assume, be sent to Chris who is in the USA. You then make
> arrangements with Chris to send the completed kit to you.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 10/14/2011 1:30 PM, moser.wilhelm wrote:
>>
>>
>>
>> --- In UHFSDR@yahoogroups.com
>> </mc/compose?to=UHFSDR%40yahoogroups.com>, "The Silver Fox"
>> <alan.r.hill@...> </mc/compose?to=alan.r.hill@...> wrote:

>> >
>> > Yes. You can still order a kit from me. $190 US and $194 DX.
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>> > least two weeks prior to shipment and paypal the money to
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>> >
>> > 73's
>> >
>> > Alan - W6ARH
>> >
>> >
>> >
>> > From: UHFSDR@yahoogroups.com
>> </mc/compose?to=UHFSDR%40yahoogroups.com>
>> [mailto:UHFSDR@yahoogroups.com
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>> > To: UHFSDR@yahoogroups.com
>> </mc/compose?to=UHFSDR%40yahoogroups.com>
>> > Subject: [UHFSDR] Full Kit Purchase
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>> >
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>> >
>> > Alan,
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>> > I was hoping to see if Full Kits were still available for
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>> > 73,
>> > Hank
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>> Alan,
>> can you please explain the meaning of
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>> 190 US and
>> 194 DX
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>> Chris told me that he will assemble one for me but I really want
>> to know what to order an I'm not a DX-er just a coder..
>>
>> 73, willi (no callsign yet)
>>
>
>

>
>

340. RE: [UHFSDR] Re: Full Kit Purchase

Yahoo group: UHFSDR
Date: 2011-10-14 21:32:35 UTC
From: The Silver Fox
Topic: 321 Message: 340

Yes. The kit includes everything.

73's

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of lists@...
Sent: Friday, October 14, 2011 2:20 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: Full Kit Purchase

Dave,

Does the $190 include everything needed to assemble the basic board? If not, what is needed to complete. Very interested in a kit.

Thanks,
Jason Rausch - KE4NYV
RPC Electronics, LLC
www.rpc-electronics.com

--- On Fri, 10/14/11, Dave <dave@...> wrote:

From: Dave <dave@...>
Subject: Re: [UHFSDR] Re: Full Kit Purchase
To: UHFSDR@yahoogroups.com
Date: Friday, October 14, 2011, 4:52 PM

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<http://wb6dhw.com> <http://wb6dhw.com>

On 10/14/2011 1:30 PM, moser.wilhelm wrote:

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> Yes. You can still order a kit from me. $190 US and $194 DX. Allow at
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> Alan - W6ARH

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Chris told me that he will assemble one for me but I really want to know
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341. RE: [UHFSDR] Re: Full Kit Purchase

Yahoo group: UHFSDR
Date: 2011-10-14 22:04:36 UTC
From: The Silver Fox
Topic: 321 Message: 341

Dave is correct in what he says is absent from the kit.

73's

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Dave
Sent: Friday, October 14, 2011 2:31 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: Full Kit Purchase

JASON:
Alan can correct me if I am wrong. The kit includes everything except a case and< I believe, the coax connectors. It does include a grade A Si570(by far the most expensive part).

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RPC Electronics, LLC
www.rpc-electronics.com

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wrote:

From: Dave <mailto:dave@...> <dave@...>
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To: UHFSDR@yahoogroups.com
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> Alan,
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190 US and
194 DX

Chris told me that he will assemble one for me but I really want to know
what to order an I'm not a DX-er just a coder..

73, willi (no callsign yet)

342. Re: Full Kit Purchase

Yahoo group: UHFSDR
Date: 2011-10-15 04:24:28 UTC
From: moser.wilhelm
Topic: 321 Message: 342

gm - Thank you all for your information,

I'm on my way to croatia for a week, earning some money as skipper.
I will organize this part of the project Sept. 24-28

gb - willi

--- In UHFSDR@yahoogroups.com, "The Silver Fox" <alan.r.hill@...> wrote:
>
> Yes. The kit includes everything.
>
> 73's
>
> Alan - W6ARH
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> From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
> lists@...
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> Dave,
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> Jason Rausch - KE4NYV
> RPC Electronics, LLC
> www.rpc-electronics.com
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> --- On Fri, 10/14/11, Dave <dave@...> wrote:
>
>
> From: Dave <dave@...>
> Subject: Re: [UHFSDR] Re: Full Kit Purchase
> To: UHFSDR@yahoogroups.com
> Date: Friday, October 14, 2011, 4:52 PM
>

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>
> 190 US 194 DX means $190 if sent to a USA address, $194 if sent to a
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>
> Dave - WB6DHW
> <http://wb6dhw.com> <http://wb6dhw.com>
>
> On 10/14/2011 1:30 PM, moser.wilhelm wrote:
>
>
>
>
>
> --- In UHFSDR@yahoogroups.com, "The Silver Fox" <alan.r.hill@> wrote:
> >
> > Yes. You can still order a kit from me. $190 US and $194 DX. Allow at
> > least two weeks prior to shipment and paypal the money to
> > alan.r.hill@
> >
> > 73's
> >
> > Alan - W6ARH
> >
> >
> >
> > From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
> > Hank
> > Sent: Sunday, September 18, 2011 12:56 PM
> > To: UHFSDR@yahoogroups.com
> > Subject: [UHFSDR] Full Kit Purchase
> >
> >
> >
> >
> >
> > Alan,
> >
> > I was hoping to see if Full Kits were still available for purchase. I am
> > interested in buying one. Can you send me current kit price and how to
> pay.
> >
> > 73,
> > Hank
> > wz3hmt
> >
> Alan,
> can you please explain the meaning of

>
> 190 US and
> 194 DX
>
> Chris told me that he will assemble one for me but I really want to know
> what to order an I'm not a DX-er just a coder..
>
> 73, willi (no callsign yet)
>

343. L1 check

Yahoo group: UHFSDR
Date: 2011-10-15 16:31:58 UTC
From: MIKE DURKIN
Topic: 343 Message: 343

Well shoot .... looks like I lost my other choke for L1. I can't tell what value is installed. Is there a way to visually discern what is installed?

Mike KC7NOA

344. RE: [UHFSDR] L1 check

Yahoo group: UHFSDR
Date: 2011-10-15 17:16:10 UTC
From: The Silver Fox
Topic: 343 Message: 344

3.3uH

L1 Alt #2

SM1210

70-IMC1210ER3R3K

73's

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of MIKE DURKIN
Sent: Saturday, October 15, 2011 9:32 AM
To: uhfsdr@yahoogroups.com
Subject: [UHFSDR] L1 check

Well shoot .... looks like I lost my other choke for L1. I can't tell what value is installed. Is there a way to visually discern what is installed?

Mike KC7NOA

345. RE: [UHFSDR] L1 check

Yahoo group: UHFSDR
Date: 2011-10-15 17:23:08 UTC
From: MIKE DURKIN
Topic: 343 Message: 345

Ummm... ok

70-IMC1210ER3R3K is a mouser part number for a 3.3uH .... guess I could look the part numbers up ... I was hopeful there was a size difference between 3.3uH and 560pH

To: UHFSDR@yahoogroups.com
From: alan.r.hill@...
Date: Sat, 15 Oct 2011 10:16:10 -0700
Subject: RE: [UHFSDR] L1 check

3.3uH
L1 Alt #2SM121070-IMC1210ER3R3K 73’sAlan – W6ARH From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of MIKE DURKIN
Sent: Saturday, October 15, 2011 9:32 AM
To: uhfsdr@yahoogroups.com
Subject: [UHFSDR] L1 check Well shoot .... looks like I lost my other choke for L1. I can't tell what value is installed. Is there a way to visually discern what is installed?

Mike KC7NOA

346. PreAmp Parasitic Oscillations

Yahoo group: UHFSDR
Date: 2011-10-15 23:00:43 UTC
From: sv1eia
Topic: 346 Message: 346

Hi,

I've noticed some oscillations in my UHFSDR from the BGA612 in various frequencies.

Is there any idea on how at best to eliminate them?
I've decreased the preamp current with higher R3 resistance from 120 to 135 ohm (as mentioned in the BGA612 datasheet) and even higher to 180, yet the oscillations are still there.

Any thoughts are welcome.

73,
Christos SV1EIA

347. Re: [UHFSDR] PreAmp Parasitic Oscillations

Yahoo group: UHFSDR
Date: 2011-10-16 01:13:56 UTC
From: Dave
Topic: 346 Message: 347

Christos:
I noticed that on one of the early units with the Hitite mmic at about 750 MHz. I think it only occurred in transmit when the output is open. I added a 100 ohm resister from the output of the mmic to ground. I didn't try a higher value.

Dave - WB6DHW
<http://wb6dhw.com>

On 10/15/2011 4:00 PM, sv1eia wrote:
>
> Hi,
>
> I've noticed some oscillations in my UHFSDR from the BGA612 in various
> frequencies.
>
> Is there any idea on how at best to eliminate them?
> I've decreased the preamp current with higher R3 resistance from 120
> to 135 ohm (as mentioned in the BGA612 datasheet) and even higher to
> 180, yet the oscillations are still there.
>
> Any thoughts are welcome.
>
> 73,
> Christos SV1EIA
>
>

348. Re: [UHFSDR] PreAmp Parasitic Oscillations

Yahoo group: UHFSDR
Date: 2011-10-16 01:19:07 UTC
From: Dave
Topic: 346 Message: 348

I just took another look at the notes and the oscillation was on the transmit mmic, not the receive mmic.

Dave - WB6DHW
<http://wb6dhw.com>

On 10/15/2011 4:00 PM, sv1eia wrote:
>
> Hi,
>
> I've noticed some oscillations in my UHFSDR from the BGA612 in various
> frequencies.
>
> Is there any idea on how at best to eliminate them?
> I've decreased the preamp current with higher R3 resistance from 120
> to 135 ohm (as mentioned in the BGA612 datasheet) and even higher to
> 180, yet the oscillations are still there.
>
> Any thoughts are welcome.
>
> 73,
> Christos SV1EIA
>
>

349. Re: [UHFSDR] PreAmp Parasitic Oscillations

Yahoo group: UHFSDR
Date: 2011-10-16 09:13:42 UTC
From: F1URI
Topic: 346 Message: 349

Hello,
I noticed the same on the transmit MMIC a couple of days ago.
I use the UHFSDR for VHF+UHF so I choosed L1 as 560nH but it was
oscillating a lot around 40-50Mhz and then mixing with the RF output.
Finally I replace L1 with 100nH (closer to MMIC) + 4.7uH and it's clean
now under the transmit frequency and I only see the harmonics above.

73
David

On 16/10/2011 03:19, Dave wrote:
>
>
> I just took another look at the notes and the oscillation was on the
> transmit mmic, not the receive mmic.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 10/15/2011 4:00 PM, sv1eia wrote:
>>
>> Hi,
>>
>> I've noticed some oscillations in my UHFSDR from the BGA612 in various
>> frequencies.
>>
>> Is there any idea on how at best to eliminate them?
>> I've decreased the preamp current with higher R3 resistance from 120
>> to 135 ohm (as mentioned in the BGA612 datasheet) and even higher to
>> 180, yet the oscillations are still there.
>>
>> Any thoughts are welcome.
>>
>> 73,
>> Christos SV1EIA
>>
>
>
>
>

350. New file uploaded to UHFSDR

Yahoo group: UHFSDR
Date: 2011-10-16 14:18:18 UTC
From: UHFSDR@yahoogroups.com
Topic: 2 Message: 350

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the UHFSDR
group.

File : /SV1EIA/10m192KHz_USB2SDR_UHFSDR_BPF.pdf
Uploaded by : sv1eia <sv1eia@...>
Description : Excellent propagation on crowded 10m band, UHFSDR with BPF controlled from
USB2SDR at 192KHz sample rate, plain vertical antenna.

You can access this file at the URL:
http://groups.yahoo.com/group/UHFSDR/files/SV1EIA/10m192KHz_USB2SDR_UHFSDR_BPF.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

sv1eia <sv1eia@...>

351. Re: PreAmp Parasitic Oscillations

Yahoo group: UHFSDR
Date: 2011-10-16 14:27:05 UTC
From: sv1eia
Topic: 346 Message: 351

Hi Dave,

Thanks for replying.

Finally managed to identify the cause of parasitic oscillations and it was not the BGA612 which is clean.
The mixing of a digital I/O ground to the BPF GND was giving a parasitic oscillation, removed after a ferrite bed inserted in that connection, so all is ok.

Now I can view the excellent 10m band conditions which is really fantastic, US stations come here in SV land at S9+10 or even more on a plain vertical, we waited for some years for the propagation to finally turn up and its worth it !!

73,
Christos SV1EIA

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> I just took another look at the notes and the oscillation was on the
> transmit mmic, not the receive mmic.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 10/15/2011 4:00 PM, sv1eia wrote:
> >
> > Hi,
> >
> > I've noticed some oscillations in my UHFSDR from the BGA612 in various
> > frequencies.
> >
> > Is there any idea on how at best to eliminate them?
> > I've decreased the preamp current with higher R3 resistance from 120
> > to 135 ohm (as mentioned in the BGA612 datasheet) and even higher to
> > 180, yet the oscillations are still there.
> >
> > Any thoughts are welcome.
> >
> > 73,
> > Christos SV1EIA
> >
> >
>

352. Re: [UHFSDR] Re: PreAmp Parasitic Oscillations

Yahoo group: UHFSDR
Date: 2011-10-16 18:46:32 UTC
From: Sid Boyce
Topic: 346 Message: 352

Hi Christos,
I can't figure this one out. The ADUM51 separates them and the BPF connects to GND via the antenna connection J4.
Where exactly is the ferrite bead placed.
73 ... Sid.

On 16/10/11 15:27, sv1eia wrote:
>
> Hi Dave,
>
> Thanks for replying.
>
> Finally managed to identify the cause of parasitic oscillations and it
> was not the BGA612 which is clean.
> The mixing of a digital I/O ground to the BPF GND was giving a
> parasitic oscillation, removed after a ferrite bed inserted in that
> connection, so all is ok.
>
> Now I can view the excellent 10m band conditions which is really
> fantastic, US stations come here in SV land at S9+10 or even more on a
> plain vertical, we waited for some years for the propagation to
> finally turn up and its worth it !!
>
> 73,
> Christos SV1EIA
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Dave
> <dave@...> wrote:
> >
> > I just took another look at the notes and the oscillation was on the
> > transmit mmic, not the receive mmic.
> >
> > Dave - WB6DHW
> > <http://wb6dhw.com>
> >
> > On 10/15/2011 4:00 PM, sv1eia wrote:
> > >
> > > Hi,
> > >
> > > I've noticed some oscillations in my UHFSDR from the BGA612 in
> various
> > > frequencies.
> > >
> > > Is there any idea on how at best to eliminate them?
> > > I've decreased the preamp current with higher R3 resistance from 120

> > > to 135 ohm (as mentioned in the BGA612 datasheet) and even higher to
> > > 180, yet the oscillations are still there.
> > >
> > > Any thoughts are welcome.
> > >
> > > 73,
> > > Christos SV1EIA
> > >
> > >
> >
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

353. Re: PreAmp Parasitic Oscillations

Yahoo group: UHFSDR
Date: 2011-10-16 19:03:16 UTC
From: sv1eia
Topic: 346 Message: 353

Hi Sid,

Yes, the GPIO to BPF connection was the issue, if you want to control the BPF, on which band it will switch to, you should have three digital I/O lines and their ground (the ADuM is for the I2C that controls the Si570 frequency).

So the GPIO digital GND that comes from the cpu that provides the three control lines, has to connect on the GND of the BPF. When I placed a ferrrite bed there digital GND <-> BPF GND, a HZ1206C202R-10, the parasitic disturbance stoped.

Then the displayed spectrum got clear and I was able to gaze at the excellent 10m conditions today having a panoramic view :-)
-> http://groups.yahoo.com/group/UHFSDR/files/SV1EIA/10m192KHz_USB2SDR_UHFSDR_BPF.pdf

73,
Christos SV1EIA

--- In UHFSDR@yahoogroups.com, Sid Boyce <sboyce@...> wrote:
>
> Hi Christos,
> I can't figure this one out. The ADUM51 separates them and the BPF
> connects to GND via the antenna connection J4.
> Where exactly is the ferrite bead placed.
> 73 ... Sid.
>
> On 16/10/11 15:27, sv1eia wrote:
> >
> > Hi Dave,
> >
> > Thanks for replying.
> >
> > Finally managed to identify the cause of parasitic oscillations and it
> > was not the BGA612 which is clean.
> > The mixing of a digital I/O ground to the BPF GND was giving a
> > parasitic oscillation, removed after a ferrite bed inserted in that
> > connection, so all is ok.
> >
> > Now I can view the excellent 10m band conditions which is really
> > fantastic, US stations come here in SV land at S9+10 or even more on a
> > plain vertical, we waited for some years for the propagation to
> > finally turn up and its worth it !!
> >
> > 73,
> > Christos SV1EIA
> >
> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Dave

> > <dave@> wrote:
> > >
> > > I just took another look at the notes and the oscillation was on the
> > > transmit mmic, not the receive mmic.
> > >
> > > Dave - WB6DHW
> > > <http://wb6dhw.com>
> > >
> > > On 10/15/2011 4:00 PM, sv1eia wrote:
> > > > >
> > > > > Hi,
> > > > >
> > > > > I've noticed some oscillations in my UHFSDR from the BGA612 in
> > various
> > > > > frequencies.
> > > > >
> > > > > Is there any idea on how at best to eliminate them?
> > > > > I've decreased the preamp current with higher R3 resistance from 120
> > > > > to 135 ohm (as mentioned in the BGA612 datasheet) and even higher to
> > > > > 180, yet the oscillations are still there.
> > > > >
> > > > > Any thoughts are welcome.
> > > > >
> > > > > 73,
> > > > > Christos SV1EIA
> > > > >
> > > > >
> > > >
> >
> >
>
>
> --
> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
> Senior Staff Specialist, Cricket Coach
> Microsoft Windows Free Zone - Linux used for all Computing Tasks
>

354. L1

Yahoo group: UHFSDR
Date: 2011-10-16 19:12:52 UTC
From: MIKE DURKIN
Topic: 354 Message: 354

Well I still don't know how to identify L1 visually, I figured I'll just replace what ever is there with a 3.3uH seriesd with a .56uH. I was surprised to see that the 56nH could be had for 6$ for 100 .... So ill sit and wait for the delivery as my punishment for misplacing my bag of unused parts.

Mike KC7NOA

355. Re: [UHFSDR] Re: PreAmp Parasitic Oscillations

Yahoo group: UHFSDR
Date: 2011-10-16 21:06:03 UTC
From: Sid Boyce
Topic: 346 Message: 355

Thanks, now I get the picture - the USBSDR is involved.
73 ... Sid.

On 16/10/11 20:03, sv1eia wrote:
>
> Hi Sid,
>
> Yes, the GPIO to BPF connection was the issue, if you want to control
> the BPF, on which band it will switch to, you should have three
> digital I/O lines and their ground (the ADuM is for the I2C that
> controls the Si570 frequency).
>
> So the GPIO digital GND that comes from the cpu that provides the
> three control lines, has to connect on the GND of the BPF. When I
> placed a ferrrite bed there digital GND <-> BPF GND, a HZ1206C202R-10,
> the parasitic disturbance stoped.
>
> Then the displayed spectrum got clear and I was able to gaze at the
> excellent 10m conditions today having a panoramic view :-)
> ->
> http://groups.yahoo.com/group/UHFSDR/files/SV1EIA/10m192KHz_USB2SDR_UHFSDR_BPF.pdf
>
> 73,
> Christos SV1EIA
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Sid
> Boyce <sboyce@...> wrote:
> >
> > Hi Christos,
> > I can't figure this one out. The ADUM51 separates them and the BPF
> > connects to GND via the antenna connection J4.
> > Where exactly is the ferrite bead placed.
> > 73 ... Sid.
> >
> > On 16/10/11 15:27, sv1eia wrote:
> > >
> > > Hi Dave,
> > >
> > > Thanks for replying.
> > >
> > > Finally managed to identify the cause of parasitic oscillations
> and it
> > > was not the BGA612 which is clean.
> > > The mixing of a digital I/O ground to the BPF GND was giving a
> > > parasitic oscillation, removed after a ferrite bed inserted in that

> > > connection, so all is ok.
> > >
> > > Now I can view the excellent 10m band conditions which is really
> > > fantastic, US stations come here in SV land at S9+10 or even more
> on a
> > > plain vertical, we waited for some years for the propagation to
> > > finally turn up and its worth it !!
> > >
> > > 73,
> > > Christos SV1EIA
> > >
> > > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> <mailto:UHFSDR%40yahoogroups.com>, Dave
> > > <dave@> wrote:
> > > >
> > > > I just took another look at the notes and the oscillation was on the
> > > > transmit mmic, not the receive mmic.
> > > >
> > > > Dave - WB6DHW
> > > > <http://wb6dhw.com>
> > > >
> > > > On 10/15/2011 4:00 PM, sv1eia wrote:
> > > > >
> > > > > Hi,
> > > > >
> > > > > I've noticed some oscillations in my UHFSDR from the BGA612 in
> > > various
> > > > > frequencies.
> > > > >
> > > > > Is there any idea on how at best to eliminate them?
> > > > > I've decreased the preamp current with higher R3 resistance
> from 120
> > > > > to 135 ohm (as mentioned in the BGA612 datasheet) and even
> higher to
> > > > > 180, yet the oscillations are still there.
> > > > >
> > > > > Any thoughts are welcome.
> > > > >
> > > > > 73,
> > > > > Christos SV1EIA
> > > > >
> > > > >
> > > >
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> >
> > --
> > Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
> > Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support

> > Senior Staff Specialist, Cricket Coach
> > Microsoft Windows Free Zone - Linux used for all Computing Tasks
> >
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

356. Re: L1

Yahoo group: UHFSDR
Date: 2011-10-16 21:21:41 UTC
From: rainerfeldkamp
Topic: 354 Message: 356

Hello Mike

No reason to sit and wait if you have a BN43-2402 or BN61-2402 in your junkbox.

3 turns on the BN43 or 6 turns on the BN61 make an excellent wide band choke as replacement for L1, if you keep the wire ends short. I use them with the ERA-5 and get a S21 spread of 2.5 dB from 2 to 500 MHz and less than 1dB from 5 to 500 MHz.

Keep in mind that in the UHFSDR, the coupling capacitors in the driver chain are only 10 nF (about 8 ohm at 2 MHz) so that you are better off with 100nF parallel to each of these if you want to go down to 1,8 MHz.

Finally, keep a look on U5 for oscillations. Compare the voltage across C14 in matched condition (with a 50 ohms resistor at the output) with the situation with a band pass connected to the output. If the voltage drops on connecting the band pass (absolutely required at frequencies below some 10 MHz) then U5 is most likely oscilating at quite high frequencies since it expects a load of 50 ohms over its bandwidth. A resistor across L1 or an attenuation pad at the input of the band pass in the transmission path may be helful.

73, Rainer DJ6OA

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
> Well I still don't know how to identify L1 visually, I figured I'll just replace what ever is there with a 3.3uH seriesd with a .56uH. I was surprised to see that the 56nH could be had for 6$ for 100 .... So ill sit and wait for the delivery as my punishment for misplacing my bag of unused parts.
>
> Mike KC7NOA
>

357. Re: L1

Yahoo group: UHFSDR
Date: 2011-10-16 22:51:56 UTC
From: Michael
Topic: 354 Message: 357

the only toroids that i know the what matrerial is FT43-23 .

Would these work?

Mike KC7NOA

--- In UHFSDR@yahoogroups.com, "rainerfeldkamp" <feldkamp@...> wrote:
>
> Hello Mike
>
> No reason to sit and wait if you have a BN43-2402 or BN61-2402 in your junkbox.
>
> 3 turns on the BN43 or 6 turns on the BN61 make an excellent wide band choke as replacement for L1, if you keep the wire ends short. I use them with the ERA-5 and get a S21 spread of 2.5 dB from 2 to 500 MHz and less than 1dB from 5 to 500 MHz.
>
> Keep in mind that in the UHFSDR, the coupling capacitors in the driver chain are only 10 nF (about 8 ohm at 2 MHz) so that you are better off with 100nF parallel to each of these if you want to go down to 1,8 MHz.
>
> Finally, keep a look on U5 for oscillations. Compare the voltage across C14 in matched condition (with a 50 ohms resistor at the output) with the situation with a band pass connected to the output. If the voltage drops on connecting the band pass (absolutely required at frequencies below some 10 MHz) then U5 is most likely oscilating at quite high frequencies since it expects a load of 50 ohms over its bandwidth. A resistor across L1 or an attenuation pad at the input of the band pass in the transmission path may be helful.
>
> 73, Rainer DJ6OA
>
>
> --- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@> wrote:
> >
> > Well I still don't know how to identify L1 visually, I figured I'll just replace what ever is there with a 3.3uH seriesd with a .56uH. I was surprised to see that the 56nH could be had for 6$ for 100 .... So ill sit and wait for the delivery as my punishment for misplacing my bag of unused parts.
> >
> > Mike KC7NOA
> >
>

358. RE: [UHFSDR] Re: L1

Yahoo group: UHFSDR
Date: 2011-10-16 22:54:30 UTC
From: MIKE DURKIN
Topic: 354 Message: 358

Shoot ... I meant FT23-43 ...

To: UHFSDR@yahoogroups.com
From: Patriot121@...
Date: Sun, 16 Oct 2011 22:51:56 +0000
Subject: [UHFSDR] Re: L1

the only toroids that i know the what matrerial is FT43-23 .

Would these work?

Mike KC7NOA

--- In UHFSDR@yahoogroups.com, "rainerfeldkamp" <feldkamp@...> wrote:

>

> Hello Mike

>

> No reason to sit and wait if you have a BN43-2402 or BN61-2402 in your junkbox.

>

> 3 turns on the BN43 or 6 turns on the BN61 make an excellent wide band choke as replacement for L1, if you keep the wire ends short. I use them with the ERA-5 and get a S21 spread of 2.5 dB from 2 to 500 MHz and less than 1dB from 5 to 500 MHz.

>

> Keep in mind that in the UHFSDR, the coupling capacitors in the driver chain are only 10 nF (about 8 ohm at 2 MHz) so that you are better off with 100nF parallel to each of these if you want to go down to 1,8 MHz.

>

> Finally, keep a look on U5 for oscillations. Compare the voltage across C14 in matched condition (with a 50 ohms resistor at the output) with the situation with a band pass connected to the output. If the voltage drops on connecting the band pass (absolutely required at frequencies below some 10 MHz) then U5 is most likely oscilating at quite high frequencies since it expects a load of 50 ohms over its bandwidth. A resistor across L1 or an attenuation pad at the input of the band pass in the transmission path may be helful.

>

> 73, Rainer DJ6OA

>

>

> --- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@> wrote:

> >

> > Well I still don't know how to identify L1 visually, I figured I'll just replace what ever is there with a 3.3uH seriesd with a .56uH. I was surprised to see that the 56nH could be had for 6$ for 100 .... So ill sit and wait for the delivery as my punishment for misplacing my bag of unused parts.

> >

> > Mike KC7NOA

> >

>

359. Re: L1

Yahoo group: UHFSDR
Date: 2011-10-16 23:19:35 UTC
From: rainerfeldkamp
Topic: 354 Message: 359

BN43-2402 and BN61-2402 are binocular (two hole) cores widely used in softrocks.

I am afraid that the coupling between turns of toroids is to weak, but you might try.

Rainer DJ6OA

--- In UHFSDR@yahoogroups.com, "Michael" <Patriot121@...> wrote:
>
> the only toroids that i know the what matrerial is FT43-23 .
>
> Would these work?
>
> Mike KC7NOA
>
> --- In UHFSDR@yahoogroups.com, "rainerfeldkamp" <feldkamp@> wrote:
> >
> > Hello Mike
> >
> > No reason to sit and wait if you have a BN43-2402 or BN61-2402 in your junkbox.
> >
> > 3 turns on the BN43 or 6 turns on the BN61 make an excellent wide band choke as replacement for L1, if you keep the wire ends short. I use them with the ERA-5 and get a S21 spread of 2.5 dB from 2 to 500 MHz and less than 1dB from 5 to 500 MHz.
> >
> > Keep in mind that in the UHFSDR, the coupling capacitors in the driver chain are only 10 nF (about 8 ohm at 2 MHz) so that you are better off with 100nF parallel to each of these if you want to go down to 1,8 MHz.
> >
> > Finally, keep a look on U5 for oscillations. Compare the voltage across C14 in matched condition (with a 50 ohms resistor at the output) with the situation with a band pass connected to the output. If the voltage drops on connecting the band pass (absolutely required at frequencies below some 10 MHz) then U5 is most likely oscilating at quite high frequencies since it expects a load of 50 ohms over its bandwidth. A resistor across L1 or an attenuation pad at the input of the band pass in the transmission path may be helful.
> >
> > 73, Rainer DJ6OA
> >
> >
> > --- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@> wrote:
> > >
> > > Well I still don't know how to identify L1 visually, I figured I'll just replace what ever is there with a 3.3uH seriesd with a .56uH. I was surprised to see that the 56nH could be had for 6$ for 100 .... So ill sit and wait for the delivery as my punishment for misplacing my bag of unused parts.

> > >
> > > Mike KC7NOA
> > >
> >
>

360. RE: [UHFSDR] Re: L1

Yahoo group: UHFSDR
Date: 2011-10-17 00:52:02 UTC
From: MIKE DURKIN
Topic: 354 Message: 360

Any suggestions for value of L1 if I wanted to reach 902Mhz ?

To: UHFSDR@yahoogroups.com
From: feldkamp@...
Date: Sun, 16 Oct 2011 23:19:35 +0000
Subject: [UHFSDR] Re: L1

BN43-2402 and BN61-2402 are binocular (two hole) cores widely used in

softrocks.

I am afraid that the coupling between turns of toroids is to weak, but

you might try.

Rainer DJ6OA

--- In UHFSDR@yahoogroups.com, "Michael" <Patriot121@...> wrote:

>

> the only toroids that i know the what matrerial is FT43-23 .

>

> Would these work?

>

> Mike KC7NOA

>

> --- In UHFSDR@yahoogroups.com, "rainerfeldkamp" <feldkamp@> wrote:

> >

> > Hello Mike

> >

> > No reason to sit and wait if you have a BN43-2402 or BN61-2402 in your junkbox.

> >

> > 3 turns on the BN43 or 6 turns on the BN61 make an excellent wide band choke as replacement for L1, if you keep the wire ends short. I use them with the ERA-5 and get a S21 spread of 2.5 dB from 2 to 500 MHz and less than 1dB from 5 to 500 MHz.

> >

> > Keep in mind that in the UHFSDR, the coupling capacitors in the driver chain are only 10 nF (about 8 ohm at 2 MHz) so that you are better off with 100nF parallel to each of these if you want to go down to 1,8 MHz.

> >

> > Finally, keep a look on U5 for oscillations. Compare the voltage across C14 in matched condition (with a 50 ohms resistor at the output) with the situation with a band pass connected to the output. If the voltage drops on connecting the band pass (absolutely required at frequencies below some 10 MHz) then U5 is most likely oscilating at quite high frequencies since it expects a load of 50 ohms over its bandwidth. A resistor across L1 or an attenuation pad at the input of the band pass in the transmission path may be helful.

> >

> > 73, Rainer DJ6OA

> >

> >

> > --- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@> wrote:

> > >

> > > Well I still don't know how to identify L1 visually, I figured I'll just replace what ever is there with a 3.3uH seriesd with a .56uH. I was surprised to see that the 56nH could be had for 6$ for 100 .... So ill sit and wait for the delivery as my punishment for misplacing my bag of unused parts.

> > >

> > > Mike KC7NOA

> > >

> >

>

361. Free download the Radioamateur Handbook 2012 by F6BCU

Yahoo group: UHFSDR
Date: 2011-10-17 10:52:25 UTC
From: F6BCU
Topic: 361 Message: 361

god day to all

free download the radio amateur handbook by F6BCU 580 MO

2100 pages 225 articles schématic, QRP, antenna, color photo

10GHz to 160m

http://communaute.onlineradio.fr/files/file/162-handbook-de-la-ligne-bleue/

73

F6BCU

362. Re: [UHFSDR] Free download the Radioamateur Handbook 2012 by F6BCU

Yahoo group: UHFSDR
Date: 2011-10-17 17:57:31 UTC
From: Jeff Thompson
Topic: 361 Message: 362

Quoting F6BCU <f6bcu@...>:

> god day to all
>
> free download the radio amateur handbook by F6BCU 580 MO
>
> 2100 pages 225 articles schématic, QRP, antenna, color photo
>
> 10GHz to 160m
>
> http://communaute.onlineradio.fr/files/file/162-handbook-de-la-ligne-bleue/
>
> 73
>
> F6BCU
>

Very impressive - a delightful buffet of flavors! Regrettably, my French ability is around zero. Is there information in English on some of your topics? The 'Bingo Star' is very interesting, but I found no paper describing it.

I use only Firefox for my internet browser. Is that a problem in accessing your site?

Thank you,

73

Jeff, W3HVU

363. RE: [UHFSDR] Free download the Radioamateur Handbook 2012 by F6BCU

Yahoo group: UHFSDR
Date: 2011-10-17 18:34:59 UTC
From: The Silver Fox
Topic: 361 Message: 363

I haven☐t found any easy way to translate all the content. Since there is
so much of it, I gave up.

73☐s

Alan ☐ W6ARH

```
From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
F6BCU
Sent: Monday, October 17, 2011 3:52 AM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Free download the Radioamateur Handbook 2012 by F6BCU

god day to all

free download the radio amateur handbook by F6BCU 580 MO

2100 pages 225 articles schématic, QRP, antenna, color photo

10GHz to 160m

http://communaute.onlineradio.fr/files/file/162-handbook-de-la-ligne-bleue/

73

F6BCU
```

364. Re: [UHFSDR] Free download the Radioamateur Handbook 2012 by F6BCU

Yahoo group: UHFSDR
Date: 2011-10-17 19:19:35 UTC
From: Marcel pitzini
Topic: 361 Message: 364

If you need some specific articles, I will be glad to help but you will have
to be patient.. :)

Marcel

W5BJV

On Mon, Oct 17, 2011 at 8:34 PM, The Silver Fox <alan.r.hill@...>wrote:

> **
>
>
> I haven’t found any easy way to translate all the content. Since there is
> so much of it, I gave up.****
>
> 73’s****
>
> Alan – W6ARH****
>
> ** **
>
> *From:* UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] *On Behalf
> Of *F6BCU
> *Sent:* Monday, October 17, 2011 3:52 AM
> *To:* UHFSDR@yahoogroups.com
> *Subject:* [UHFSDR] Free download the Radioamateur Handbook 2012 by F6BCU*
> ***
>
> ** **
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> ****
>
> god day to all
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> http://communaute.onlineradio.fr/files/file/162-handbook-de-la-ligne-bleue/
>
> 73
>
> F6BCU****

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> ****
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365. SDRWidget-i2c-UHFSDR

Yahoo group: UHFSDR
Date: 2011-10-18 21:34:47 UTC
From: Jack
Topic: 365 Message: 365

I have been trying to chase down a noise issue on the combo. If I run the UHFSDR under parallel port control, I have a great spectrum display using just the widget audio channels without i2c control. If I run the Widget/i2c control on a MOBO (SR63ng), I also see a great spectrum. However when I try to use the i2c control from the Widget on the UHFSDR, I have quite a hump at the center frequency (20-30 dB) : the frequency control works as its suppose to. I also hooked up an Arduino i2c controller to the UHFSDR with widget audio--again the frequency control works great but the hump is there.

At this point I believe this is attributable to the UHFSDR. Is anyone else experiencing noise associated with the i2c or thoughts on tracing the issue. I saw one post about a related issue, but they were not getting any control response. My setup controls the frequency quite well. Thanks and 73,
Jack (W0FNQ)

366. Re: SDRWidget-i2c-UHFSDR

Yahoo group: UHFSDR
Date: 2011-10-19 05:46:50 UTC
From: sv1eia
Topic: 365 Message: 366

Jack,

At least with USB2SDR on a UHFSDR I see no issues at all with the I2C.
Actually since Dave placed an ADuM isolator there, I would be surprised to see anything like it.

If you altered though the circuitry and 'violated' the isolation by lets say feeding the outermost isolated side of ADuM from the UHFSDR power, then this could happen in your case.

Just my 2c.

73,
Christos SV1EIA

PS.
I had a small issue when cascading the 160m-10m BPF and its non-isolated grounding connecting to another digital-control ground but that got easily ok with a ferrite bed.
That of course has nothing to do with the UHFSDR.

--- In UHFSDR@yahoogroups.com, "Jack" <9artus@...> wrote:
>
> I have been trying to chase down a noise issue on the combo. If I run the UHFSDR under parallel port control, I have a great spectrum display using just the widget audio channels without i2c control. If I run the Widget/i2c control on a MOBO (SR63ng), I also see a great spectrum. However when I try to use the i2c control from the Widget on the UHFSDR, I have quite a hump at the center frequency (20-30 dB) : the frequency control works as its suppose to. I also hooked up an Arduino i2c controller to the UHFSDR with widget audio--again the frequency control works great but the hump is there.
>
> At this point I believe this is attributable to the UHFSDR. Is anyone else experiencing noise associated with the i2c or thoughts on tracing the issue. I saw one post about a related issue, but they were not getting any control response. My setup controls the frequency quite well. Thanks and 73,
> Jack (W0FNQ)
>

367. Re: SDRWidget-i2c-UHFSDR

Yahoo group: UHFSDR
Date: 2011-10-19 12:57:36 UTC
From: Jack
Topic: 365 Message: 367

Christos,

Thanks for the reply. I don't think the isolation is compromised based on VOM measurements, but I will pull the board out of its enclosure and do more checking around that chip. I am supplying the power to pin one of the UHFSDR from the Widget not the UHFSDR itself. Perhaps something has happened to the ADUM; I have considered ordering a replacement isolator. It is rather screwy that the parallel port configuration works so well.

73, Jack

--- In UHFSDR@yahoogroups.com, "sv1eia" <sv1eia@...> wrote:
>
> Jack,
>
> At least with USB2SDR on a UHFSDR I see no issues at all with the I2C.
> Actually since Dave placed an ADuM isolator there, I would be surprised to see anything like it.
>
> If you altered though the circuitry and 'violated' the isolation by lets say feeding the outermost isolated side of ADuM from the UHFSDR power, then this could happen in your case.
>
> Just my 2c.
>
> 73,
> Christos SV1EIA
>
> PS.
> I had a small issue when cascading the 160m-10m BPF and its non-isolated grounding connecting to another digital-control ground but that got easily ok with a ferrite bed.
> That of course has nothing to do with the UHFSDR.
>
>
> --- In UHFSDR@yahoogroups.com, "Jack" <9artus@> wrote:
> >
> > I have been trying to chase down a noise issue on the combo. If I run the UHFSDR under parallel port control, I have a great spectrum display using just the widget audio channels without i2c control. If I run the Widget/i2c control on a MOBO (SR63ng), I also see a great spectrum. However when I try to use the i2c control from the Widget on the UHFSDR, I have quite a hump at the center frequency (20-30 dB) : the frequency control works as its suppose to. I also hooked up an Arduino i2c controller to the UHFSDR with widget audio--again the frequency control works great but the hump is there.
> >
> > At this point I believe this is attributable to the UHFSDR. Is anyone else experiencing noise associated with the i2c or thoughts on tracing the issue. I saw one post about a related issue, but they were not getting any control response. My setup controls the frequency quite well. Thanks and 73,

> > Jack (W0FNQ)
> >
>

369. Which way to jump

Yahoo group: UHFSDR
Date: 2011-10-19 15:19:59 UTC
From: John
Topic: 369 Message: 369

I'm just starting out with a new build of a UHFSDR.
I'm wondering what would be the simplest, least expensive interface for it to give it a try out. I don't have a computer with a parallel interface. Would it be possible to us Tony Park's old I2C board (for the 6.3) and somehow tell the software upstream about divide by 2?

Thanks,

John
KC9OJV

370. Starting Build

Yahoo group: UHFSDR
Date: 2011-11-21 18:11:20 UTC
From: Hank
Topic: 370 Message: 370

Well I received my kit, and will be starting build for my Thanksgiving project. I have read most all of the posts on the forum, but if anyone has any last minute advice (with respect to build of course), it would be greatly appreciated.

Wish me luck, 73,

Hank
WZ3HMT

371. Re: [UHFSDR] Starting Build

Yahoo group: UHFSDR
Date: 2011-11-21 18:20:26 UTC
From: Gareth Jones
Topic: 370 Message: 371

Hi there Hank !
I am Gareth Jones 2E0GGO here in the U.K. and I too have the kit ready but feeling a bit daunted as the components are SMALL man !!
Yes I know SMCs but .....well never mind.
73's
2E0GGO
Gareth..

From: Hank <hank@...>
To: UHFSDR@yahoogroups.com
Sent: Monday, 21 November 2011, 18:11
Subject: [UHFSDR] Starting Build

Well I received my kit, and will be starting build for my Thanksgiving project. I have read most all of the posts on the forum, but if anyone has any last minute advice (with respect to build of course), it would be greatly appreciated.

Wish me luck, 73,

Hank
WZ3HMT

372. RE: [UHFSDR] Starting Build

Yahoo group: UHFSDR
Date: 2011-11-21 19:06:39 UTC
From: MIKE DURKIN
Topic: 370 Message: 372

I would say .. double check what relays you have .... and the only problem I had in the build was a diode that's part of the Tx/Rx control .... it's cramped space there so put it on early and the resistor in series to ground ... its next to the edge ...

To: UHFSDR@yahoogroups.com
From: hank@plastekgroup.com
Date: Mon, 21 Nov 2011 18:11:20 +0000
Subject: [UHFSDR] Starting Build

Well I received my kit, and will be starting build for my Thanksgiving project. I have read most all of the posts on the forum, but if anyone has any last minute advice (with respect to build of course), it would be greatly appreciated.

Wish me luck, 73,

Hank

WZ3HMT

373. Re: Starting Build

Yahoo group: UHFSDR
Date: 2011-11-21 19:19:18 UTC
From: Hank
Topic: 370 Message: 373

Gareth,

I am intimidated by the component size as well, but not probably smart enough to know when to quit. Thanks for the reply.

Hank
WZ3HMT

--- In UHFSDR@yahoogroups.com, Gareth Jones <albatross579@...> wrote:
>
> Hi there Hank !
> I am Gareth Jones Â 2E0GGO here in the U.K. and I too have the kit ready but feeling a bit daunted as the components are SMALL man !!
> Yes I know SMCs but .....well never mind.
> 73's
> 2E0GGO
> Gareth..Â
>
>
> _____
> From: Hank <hank@...>
> To: UHFSDR@yahoogroups.com
> Sent: Monday, 21 November 2011, 18:11
> Subject: [UHFSDR] Starting Build
>
>
> Â
> Well I received my kit, and will be starting build for my Thanksgiving project. I have read most all of the posts on the forum, but if anyone has any last minute advice (with respect to build of course), it would be greatly appreciated.
>
> Wish me luck, 73,
>
> Hank
> WZ3HMT
>

374. Re: Starting Build

Yahoo group: UHFSDR
Date: 2011-11-21 19:21:13 UTC
From: Hank
Topic: 370 Message: 374

Mike,

Thank you for the hint. I have this on top of my list, to check the relays and I will install the diode/resistor combination early in the build.

73,
Hank
WZ3HMT

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
> I would say .. double check what relays you have .... and the only problem I had in the build was a diode that's part of the Tx/Rx control .... it's cramped space there so put it on early and the resistor in series to ground ... its next to the edge ...
>
> To: UHFSDR@yahoogroups.com
> From: hank@...
> Date: Mon, 21 Nov 2011 18:11:20 +0000
> Subject: [UHFSDR] Starting Build
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> Well I received my kit, and will be starting build for my Thanksgiving project. I have read most all of the posts on the forum, but if anyone has any last minute advice (with respect to build of course), it would be greatly appreciated.

>
>
>
> Wish me luck, 73,
>
>
>
> Hank
>
> WZ3HMT
>

375. Re: [UHFSDR] Re: Starting Build

Yahoo group: UHFSDR
Date: 2011-11-21 21:28:34 UTC
From: Dave
Topic: 370 Message: 375

A pair of tweezers, a lighted desk magnifier, a soldering iron or soldering station with a very small tip and small solder (I use .015" 63/37 or 2% silver solder) make it easy with these size of SMC. Compared to some of the latest stuff(resistors .01 by .005 inch, IC's with .020 inch spacing, etc) these are large.

Dave - WB6DHW
<http://wb6dhw.com>

On 11/21/2011 11:19 AM, Hank wrote:
>
> Gareth,
>
> I am intimidated by the component size as well, but not probably smart
> enough to know when to quit. Thanks for the reply.
>
> Hank
> WZ3HMT
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
> Gareth Jones <albatross579@...> wrote:
> >
> > Hi there Hank !
> > I am Gareth Jones ? 2E0GGO here in the U.K. and I too have the kit
> ready but feeling a bit daunted as the components are SMALL man !!
> > Yes I know SMCs but .....well never mind.
> > 73's
> > 2E0GGO
> > Gareth..?
> >
> >
> > _____
> > From: Hank <hank@...>
> > To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> > Sent: Monday, 21 November 2011, 18:11
> > Subject: [UHFSDR] Starting Build
> >
> >
> > ?
> > Well I received my kit, and will be starting build for my
> Thanksgiving project. I have read most all of the posts on the forum,
> but if anyone has any last minute advice (with respect to build of
> course), it would be greatly appreciated.
> >
> > Wish me luck, 73,

> >
> > Hank
> > WZ3HMT
> >
>
>
>

376. Re: [UHFSDR] Re: Starting Build

Yahoo group: UHFSDR
Date: 2011-11-21 22:09:15 UTC
From: Stephen Farthing
Topic: 370 Message: 376

Still waiting for mine to arrive....i guess the revenue men have it....I also have the SDR2Go kit to put together....but I don't mind SMT in a way it is a lot easier than through hole technology. once you get use to the size. Removing leaded components from a through hole plated PCB is way harder than removing an SMT component.

You need a well lit area, a magnifier, something to hold the component to the board, some people use a toothpick for this. A small tipped iron and either some fine solder or some solder paste and some flux (which confusingly is called solder paste in many European countries). I like solder paste because it is easy to apply to the land on the PCB before you solder the joint. So you can then use one hand for the iron and the other hand to hold the component steady while you make the joint. If you are rich you can buy a hot air rework station instead of the iron....if you are poor you can try a hot air embossing tool from a craft shop. If this is your first time with SMT I recommend you get some scrap boards from an old PC and try removing and resoldering components to get confidence before you have a go at the real deal...

Regards,

Steve G0XAR

--
RIP Dennis Ritchie, I'm sure you will still be cutting code somewhere out there in the universe. You gave the world "C" and taught me a lot.

377. Re: Starting Build

Yahoo group: UHFSDR
Date: 2011-11-22 01:59:12 UTC
From: Hank
Topic: 370 Message: 377

Dave,

Thank you for suggestions. Already have everything except solder that small, the kester I have is .02. Will obtain some before I start the kit. Thanks for all the suggestions.

Hank

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> A pair of tweezers, a lighted desk magnifier, a soldering iron or
> soldering station with a very small tip and small solder (I use .015"
> 63/37 or 2% silver solder) make it easy with these size of SMC.
> Compared to some of the latest stuff(resistors .01 by .005 inch, IC's
> with .020 inch spacing, etc) these are large.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 11/21/2011 11:19 AM, Hank wrote:
> >
> > Gareth,
> >
> > I am intimidated by the component size as well, but not probably smart
> > enough to know when to quit. Thanks for the reply.
> >
> > Hank
> > WZ3HMT
> >
> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
> > Gareth Jones <albatross579@> wrote:
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> > > Hi there Hank !
> > > I am Gareth Jones Â 2E0GGO here in the U.K. and I too have the kit
> > ready but feeling a bit daunted as the components are SMALL man !!
> > > Yes I know SMCs but .....well never mind.
> > > 73's
> > > 2E0GGO
> > > Gareth..Â
> > >
> > >
> > > _____
> > > From: Hank <hank@>
> > > To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> > > Sent: Monday, 21 November 2011, 18:11
> > > Subject: [UHFSDR] Starting Build
> > >

> > >
> > > Â
> > > Well I received my kit, and will be starting build for my
> > Thanksgiving project. I have read most all of the posts on the forum,
> > but if anyone has any last minute advice (with respect to build of
> > course), it would be greatly appreciated.
> > >
> > > Wish me luck, 73,
> > >
> > > Hank
> > > WZ3HMT
> > >
> >
> >
> >
>

378. Re: [UHFSDR] Re: Starting Build

Yahoo group: UHFSDR
Date: 2011-11-22 02:56:40 UTC
From: Dave
Topic: 370 Message: 378

Hank:
.02" solder is probably OK. .032 is definitely too big. On the resistors and caps, put a little solder on one pad, hold the component in place with the tweezers and re-heat the solder. Then solder the other side and touch up the first side as necessary. Easier than it sounds. Likeways, on IC's put a little solder on one of the corner pads, position with the tweezers and re-heat the solder. Re-check the position of the IC and move if necessary. Solder the opposite corner. Again check the position. If OK, then solder the remaining pins. I find soldering these size surface mounts easier than thru hole devices.

Dave - WB6DHW
<http://wb6dhw.com>

On 11/21/2011 5:59 PM, Hank wrote:
>
> Dave,
>
> Thank you for suggestions. Already have everything except solder that
> small, the kester I have is .02. Will obtain some before I start the
> kit. Thanks for all the suggestions.
>
> Hank
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Dave
> <dave@...> wrote:
> >
> > A pair of tweezers, a lighted desk magnifier, a soldering iron or
> > soldering station with a very small tip and small solder (I use .015"
> > 63/37 or 2% silver solder) make it easy with these size of SMC.
> > Compared to some of the latest stuff(resistors .01 by .005 inch, IC's
> > with .020 inch spacing, etc) these are large.
> >
> > Dave - WB6DHW
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> >
> > On 11/21/2011 11:19 AM, Hank wrote:
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> > > Gareth,
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> > > I am intimidated by the component size as well, but not probably
> smart
> > > enough to know when to quit. Thanks for the reply.
> > >
> > > Hank

> > > WZ3HMT
> > >
> > > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> <mailto:UHFSDR%40yahoogroups.com>,
> > > Gareth Jones <albatross579@> wrote:
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> > > > Hi there Hank !
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> > > > Gareth..?
> > > >
> > > >
> > > > _____
> > > > From: Hank <hank@>
> > > > To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> <mailto:UHFSDR%40yahoogroups.com>
> > > > Sent: Monday, 21 November 2011, 18:11
> > > > Subject: [UHFSDR] Starting Build
> > > >
> > > >
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> > > course), it would be greatly appreciated.
> > > >
> > > > Wish me luck, 73,
> > > >
> > > > Hank
> > > > WZ3HMT
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379. Re: Starting Build

Yahoo group: UHFSDR
Date: 2011-11-22 02:04:32 UTC
From: Hank
Topic: 370 Message: 379

Steve,

Thanks, I have wanted to try paste for a new build. I have used paste in past for rework. I do have a rework station, but unfortunately, I am far from rich.... :(It was a good price on e-bay! It has a pretty good iron and hot air tool so I think I am pretty set. Have done some SMT work before and this will be my 3rd time to mount a Si570 but I am still very cautious.

73,
Hank
WZ3HMT

--- In UHFSDR@yahoogroups.com, Stephen Farthing <squirrox@...> wrote:
>
> Still waiting for mine to arrive....i guess the revenue men have it....I
> also have the SDR2Go kit to put together....but I don't mind SMT in a way
> it is a lot easier than through hole technology. once you get use to the
> size. Removing leaded components from a through hole plated PCB is way
> harder than removing an SMT component.
>
> You need a well lit area, a magnifier, something to hold the component to
> the board, some people use a toothpick for this. A small tipped iron and
> either some fine solder or some solder paste and some flux (which
> confusingly is called solder paste in many European countries). I like
> solder paste because it is easy to apply to the land on the PCB before you
> solder the joint. So you can then use one hand for the iron and the other
> hand to hold the component steady while you make the joint. If you are rich
> you can buy a hot air rework station instead of the iron....if you are poor
> you can try a hot air embossing tool from a craft shop. If this is your
> first time with SMT I recommend you get some scrap boards from an old PC
> and try removing and resoldering components to get confidence before you
> have a go at the real deal...
>
> Regards,
>
> Steve G0XAR
>
>
> --
> RIP Dennis Ritchie, I'm sure you will still be cutting code somewhere out
> there in the universe. You gave the world "C" and taught me a lot.
>

380. Re: Starting Build

Yahoo group: UHFSDR
Date: 2011-11-22 20:24:33 UTC
From: Hank
Topic: 370 Message: 380

Mike,

I meant to ask what I was looking for by double checking the relays? Can you elaborate. Checking that they are functional or a specific type?

Sorry to be confused, but it come's easy for me..:)

73,
Hank
WZ3HMT

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
> I would say .. double check what relays you have .... and the only problem I had in the build was a diode that's part of the Tx/Rx control .... it's cramped space there so put it on early and the resistor in series to ground ... its next to the edge ...
>
> To: UHFSDR@yahoogroups.com
> From: hank@...
> Date: Mon, 21 Nov 2011 18:11:20 +0000
> Subject: [UHFSDR] Starting Build
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>
> Well I received my kit, and will be starting build for my Thanksgiving project. I have

read most all of the posts on the forum, but if anyone has any last minute advice (with respect to build of course), it would be greatly appreciated.
>
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>
> Wish me luck, 73,
>
>
>
> Hank
>
> WZ3HMT
>

381. RE: [UHFSDR] Re: Starting Build

Yahoo group: UHFSDR
Date: 2011-11-22 20:28:34 UTC
From: MIKE DURKIN
Topic: 370 Message: 381

specific type .... part number ..

it took me a few days after I had them installed to get the TX/RX to function correctly because I thought I had something else installed ....

BTY , I bought the full kit ....

To: UHFSDR@yahoogroups.com
From: hank@...
Date: Tue, 22 Nov 2011 20:24:33 +0000
Subject: [UHFSDR] Re: Starting Build

Mike,

I meant to ask what I was looking for by double checking the relays? Can you elaborate. Checking that they are functional or a specific type?

Sorry to be confused, but it come's easy for me..:)

73,

Hank

WZ3HMT

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:

>

> I would say .. double check what relays you have .... and the only problem I had in the build was a diode that's part of the Tx/Rx control .... it's cramped space there so put it on early and the resistor in series to ground ... its next to the edge ...

>

> To: UHFSDR@yahoogroups.com

> From: hank@...

> Date: Mon, 21 Nov 2011 18:11:20 +0000

> Subject: [UHFSDR] Starting Build

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> Well I received my kit, and will be starting build for my Thanksgiving project. I have read most all of the posts on the forum, but if anyone has any last minute advice (with respect to build of course), it would be greatly appreciated.

>

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>

> Wish me luck, 73,

>

>

>

> Hank

>

> WZ3HMT

>

382. Re: Starting Build

Yahoo group: UHFSDR
Date: 2011-11-22 21:01:25 UTC
From: Hank
Topic: 370 Message: 382

Mark,

I purchased full kit through Alan and I appreciate the heads up on the relays.

Hank
WZ3HMT

383. Re: Starting Build

Yahoo group: UHFSDR
Date: 2011-11-22 21:02:21 UTC
From: Hank
Topic: 370 Message: 383

Sorry, meant to address to Mike.

--- In UHFSDR@yahoogroups.com, "Hank" <hank@...> wrote:
>
> Mark,
>
> I purchased full kit through Alan and I appreciate the heads up on the relays.
>
> Hank
> WZ3HMT
>

384. RE: [UHFSDR] Re: Starting Build

Yahoo group: UHFSDR
Date: 2011-11-22 22:03:30 UTC
From: The Silver Fox
Topic: 370 Message: 384

No problem. It is a indication to others that I still sell the kits.

73's

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
Hank
Sent: Tuesday, November 22, 2011 1:02 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Re: Starting Build

Sorry, meant to address to Mike.

--- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com> , "Hank"
<hank@...> wrote:
>
> Mark,
>
> I purchased full kit through Alan and I appreciate the heads up on the
relays.
>
> Hank
> WZ3HMT
>

385. Voltage Regulators U3-3

Yahoo group: UHFSDR
Date: 2011-11-25 03:19:09 UTC
From: Hank
Topic: 385 Message: 385

Dave,

In step 22 of the voltage regulators I verify 7.93V at U11-3 but without P2-1 to TP1 I am suppose to verify 0V at U3-3. I am seeing 7.93V at U3-3.

I see after I connect jumper from P2-1 to TP1 I am suppose to see voltage at U3-3.

Is this a problem?

73,
Hank
WZ3HMT

386. Re: Voltage Regulators U3-3

Yahoo group: UHFSDR
Date: 2011-11-25 03:39:01 UTC
From: Hank
Topic: 385 Message: 386

In replying to my own question I belive Q5 is at fault. In testing Q5 it seems to fail Collector/Emitter diode testing.

Replace Q5?

Hank

--- In UHFSDR@yahoogroups.com, "Hank" <hank@...> wrote:
>
> Dave,
>
> In step 22 of the voltage regulators I verify 7.93V at U11-3 but without P2-1 to TP1 I am suppose to verify 0V at U3-3. I am seeing 7.93V at U3-3.
>
> I see after I connect jumper from P2-1 to TP1 I am suppose to see voltage at U3-3.
>
> Is this a problem?
>
> 73,
> Hank
> WZ3HMT
>

387. RE: [UHFSDR] Re: Voltage Regulators U3-3

Yahoo group: UHFSDR
Date: 2011-11-25 05:36:19 UTC
From: MIKE DURKIN
Topic: 385 Message: 387

not sure what you mean collector - emitter fail diode test?... diode junction is base - emitter ....

so, voltage on the base does change (q5) ?

sorry I don't have my Sdr2go to look at, but ill try to help if I can ...

Q5 looks like a pnp ... so when the base is relatively low (don't know what voltage but its not 5v - maybe 1.5v?), the emitter to collector will conduct.

if collector to emitter tests like a short ... well maybe its gone south ...

To: UHFSDR@yahoogroups.com
From: hank@...
Date: Fri, 25 Nov 2011 03:39:01 +0000
Subject: [UHFSDR] Re: Voltage Regulators U3-3

In replying to my own question I belive Q5 is at fault. In testing Q5 it seems to fail Collector/Emitter diode testing.

Replace Q5?

Hank

--- In UHFSDR@yahoogroups.com, "Hank" <hank@...> wrote:

>

> Dave,

>

> In step 22 of the voltage regulators I verify 7.93V at U11-3 but without P2-1 to TP1 I am suppose to verify 0V at U3-3. I am seeing 7.93V at U3-3.

>

> I see after I connect jumper from P2-1 to TP1 I am suppose to see voltage at U3-3.

>

> Is this a problem?

>

> 73,

> Hank

> WZ3HMT

>

388. Re: Voltage Regulators U3-3

Yahoo group: UHFSDR
Date: 2011-11-25 06:49:56 UTC
From: Hank
Topic: 385 Message: 388

Mike,

Sorry should have been more specific. The collector/emitter junction conducts in one direction much like a diode which it should not conduct at all I believe.

It may be because I installed D1 early, there is a small voltage .5v going into Q6 which is probably allowing q5 to pass the 12V into U3.

I will keep testing tomorrow as it's well past my bedtime and can't think any more.

Good progress today, got through the Si570 and all except for this voltage issue on U3 seems well.

Hank

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
> not sure what you mean collector - emitter fail diode test?... diode junction is base - emitter ....
>
> so, voltage on the base does change (q5) ?
>
> sorry I don't have my Sdr2go to look at, but ill try to help if I can ...
>
> Q5 looks like a pnp ... so when the base is relatively low (don't know what voltage but its not 5v - maybe 1.5v?), the emitter to collector will conduct.
>
> if collector to emitter tests like a short ... well maybe its gone south ...
>
> To: UHFSDR@yahoogroups.com
> From: hank@...
> Date: Fri, 25 Nov 2011 03:39:01 +0000
> Subject: [UHFSDR] Re: Voltage Regulators U3-3
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> Replace Q5?
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> Hank
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> --- In UHFSDR@yahoogroups.com, "Hank" <hank@> wrote:
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> > Dave,
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> > In step 22 of the voltage regulators I verify 7.93V at U11-3 but without P2-1 to TP1 I am suppose to verify 0V at U3-3. I am seeing 7.93V at U3-3.
>
> >
>
> > I see after I connect jumper from P2-1 to TP1 I am suppose to see voltage at U3-3.
>
> >
>
> > Is this a problem?
>
> >
>
> > 73,
>
> > Hank
>
> > WZ3HMT

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>

389. Re: Voltage Regulators U3-3

Yahoo group: UHFSDR
Date: 2011-11-25 06:56:48 UTC
From: Hank
Topic: 385 Message: 389

Mike,

I am going to drop worrying about Q5, tested it again and can not duplicate collector/emitter failure using a diode tester.

I am going to try to track down a parallel port pc tomorrow to test out setting of Si570 frequency.

Hank

390. Re: [UHFSDR] Voltage Regulators U3-3

Yahoo group: UHFSDR
Date: 2011-11-25 08:57:38 UTC
From: Dave
Topic: 385 Message: 390

Hank:
It could be a problem. U3 supplies voltage for the xmit mmic and we want it off during receive. When T1-1 is open, you should measured approx. 10K(R4) to ground. If that is OK, then try shorting P2-1 to P2-2. If you still see voltage at U3-3, then that indicates a problem in the Q5 - Q6 area.

On 11/24/2011 7:19 PM, Hank wrote:
>
> Dave,
>
> In step 22 of the voltage regulators I verify 7.93V at U11-3 but
> without P2-1 to TP1 I am suppose to verify 0V at U3-3. I am seeing
> 7.93V at U3-3.
>
> I see after I connect jumper from P2-1 to TP1 I am suppose to see
> voltage at U3-3.
>
> Is this a problem?
>
> 73,
> Hank
> WZ3HMT
>
>

391. Re: [UHFSDR] Re: Voltage Regulators U3-3

Yahoo group: UHFSDR
Date: 2011-11-25 09:02:13 UTC
From: Dave
Topic: 385 Message: 391

Hank:
I don't think you would get enough voltage from D1. It is fed with a 220K resistor and there is a 10K to ground. Shorting P2-1 to P2-2 will ground the T/R line.

Dave - WB6DHW
<http:/wb6dhw.com>

On 11/24/2011 10:49 PM, Hank wrote:
>
> Mike,
>
> Sorry should have been more specific. The collector/emitter junction
> conducts in one direction much like a diode which it should not
> conduct at all I believe.
>
> It may be because I installed D1 early, there is a small voltage .5v
> going into Q6 which is probably allowing q5 to pass the 12V into U3.
>
> I will keep testing tomorrow as it's well past my bedtime and can't
> think any more.
>
> Good progress today, got through the Si570 and all except for this
> voltage issue on U3 seems well.
>
> Hank
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, MIKE
> DURKIN <Patriot121@...> wrote:
> >
> > not sure what you mean collector - emitter fail diode test?... diode
> junction is base - emitter ....
> >
> > so, voltage on the base does change (q5) ?
> >
> > sorry I don't have my Sdr2go to look at, but ill try to help if I
> can ...
> >
> > Q5 looks like a pnp ... so when the base is relatively low (don't
> know what voltage but its not 5v - maybe 1.5v?), the emitter to
> collector will conduct.
> >
> > if collector to emitter tests like a short ... well maybe its gone
> south ...
> >

> > To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> > From: hank@...
> > Date: Fri, 25 Nov 2011 03:39:01 +0000
> > Subject: [UHFSDR] Re: Voltage Regulators U3-3
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> > In replying to my own question I belive Q5 is at fault. In testing
> Q5 it seems to fail Collector/Emitter diode testing.
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> > Replace Q5?
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> >
> > Hank
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> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
> "Hank" <hank@> wrote:
> >
> > >
> >
> > > Dave,
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> > > In step 22 of the voltage regulators I verify 7.93V at U11-3 but
> without P2-1 to TP1 I am suppose to verify 0V at U3-3. I am seeing
> 7.93V at U3-3.
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> > > I see after I connect jumper from P2-1 to TP1 I am suppose to see
> voltage at U3-3.
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> > > Is this a problem?
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> > > 73,
> >
> > > Hank
> >
> > > WZ3HMT
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> > >
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>

392. Re: Voltage Regulators U3-3

Yahoo group: UHFSDR
Date: 2011-11-25 19:14:25 UTC
From: Hank
Topic: 385 Message: 392

Dave,

After reading your reply, thank you, taking P2-1 to P2-2 for ground did the trick. I don't think grounding P2-1 is in the build instructions. Thank you for setting me straight. All is as it should be.

73,
Hank
WZ3HMT

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> Hank:
> I don't think you would get enough voltage from D1. It is fed with a
> 220K resistor and there is a 10K to ground. Shorting P2-1 to P2-2 will
> ground the T/R line.
>
> Dave - WB6DHW
> <http:/wb6dhw.com>
>
> On 11/24/2011 10:49 PM, Hank wrote:
> >
> > Mike,
> >
> > Sorry should have been more specific. The collector/emitter junction
> > conducts in one direction much like a diode which it should not
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> > It may be because I installed D1 early, there is a small voltage .5v
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> > Good progress today, got through the Si570 and all except for this
> > voltage issue on U3 seems well.
> >
> > Hank
> >
> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, MIKE
> > DURKIN <Patriot121@> wrote:
> > >
> > > not sure what you mean collector - emitter fail diode test?... diode
> > junction is base - emitter ....
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> > can ...
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> > know what voltage but its not 5v - maybe 1.5v?), the emitter to
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> > > if collector to emitter tests like a short ... well maybe its gone
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> > > To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> > > From: hank@
> > > Date: Fri, 25 Nov 2011 03:39:01 +0000
> > > Subject: [UHFSDR] Re: Voltage Regulators U3-3
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> > > Hank
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> > > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
> > "Hank" <hank@> wrote:
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> > > > 73,
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> > > > Hank
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393. RE: [UHFSDR] Re: Voltage Regulators U3-3

Yahoo group: UHFSDR
Date: 2011-11-25 20:45:50 UTC
From: MIKE DURKIN
Topic: 385 Message: 393

Don't you like it when you thought you made a mistake but you were wrong?!?

To: UHFSDR@yahoogroups.com
From: hank@...
Date: Fri, 25 Nov 2011 19:14:25 +0000
Subject: [UHFSDR] Re: Voltage Regulators U3-3

Dave,

After reading your reply, thank you, taking P2-1 to P2-2 for ground did the trick. I don't think grounding P2-1 is in the build instructions. Thank you for setting me straight. All is as it should be.

73,

Hank

WZ3HMT

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:

>

> Hank:

> I don't think you would get enough voltage from D1. It is fed with a

> 220K resistor and there is a 10K to ground. Shorting P2-1 to P2-2 will

> ground the T/R line.

>

> Dave - WB6DHW

> <http:/wb6dhw.com>

>

> On 11/24/2011 10:49 PM, Hank wrote:

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> > Mike,

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> > Sorry should have been more specific. The collector/emitter junction

> > conducts in one direction much like a diode which it should not

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> > It may be because I installed D1 early, there is a small voltage .5v

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> > think any more.

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> > Good progress today, got through the Si570 and all except for this

> > voltage issue on U3 seems well.

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> > Hank

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> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, MIKE

> > DURKIN <Patriot121@> wrote:

> > >

> > > not sure what you mean collector - emitter fail diode test?... diode

> > junction is base - emitter ....

> > >

> > > so, voltage on the base does change (q5) ?

> > >

> > > sorry I don't have my Sdr2go to look at, but ill try to help if I

> > can ...

> > >

> > > Q5 looks like a pnp ... so when the base is relatively low (don't

> > know what voltage but its not 5v - maybe 1.5v?), the emitter to

> > collector will conduct.

> > >

> > > if collector to emitter tests like a short ... well maybe its gone

> > south ...

> > >

> > > To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>

> > > From: hank@

> > > Date: Fri, 25 Nov 2011 03:39:01 +0000

> > > Subject: [UHFSDR] Re: Voltage Regulators U3-3

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> > > Replace Q5?

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> > > Hank

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> > > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,

> > "Hank" <hank@> wrote:

> > >

> > > >

> > >

> > > > Dave,

> > >

> > > >

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> > > > In step 22 of the voltage regulators I verify 7.93V at U11-3 but

> > without P2-1 to TP1 I am suppose to verify 0V at U3-3. I am seeing

> > 7.93V at U3-3.

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> > voltage at U3-3.

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> > > > Is this a problem?

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> > > > 73,

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> > > > Hank

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> > > > WZ3HMT

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394. Re: [UHFSDR] Re: Voltage Regulators U3-3

Yahoo group: UHFSDR
Date: 2011-11-25 21:20:42 UTC
From: Sid Boyce
Topic: 385 Message: 394

It's there as that is how you test the RX build.
73 ... Sid.

On 25/11/11 19:14, Hank wrote:
>
> Dave,
>
> After reading your reply, thank you, taking P2-1 to P2-2 for ground
> did the trick. I don't think grounding P2-1 is in the build
> instructions. Thank you for setting me straight. All is as it should be.
>
> 73,
> Hank
> WZ3HMT
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Dave
> <dave@...> wrote:
> >
> > Hank:
> > I don't think you would get enough voltage from D1. It is fed with a
> > 220K resistor and there is a 10K to ground. Shorting P2-1 to P2-2 will
> > ground the T/R line.
> >
> > Dave - WB6DHW
> > <http:/wb6dhw.com>
> >
> > On 11/24/2011 10:49 PM, Hank wrote:
> > >
> > > Mike,
> > >
> > > Sorry should have been more specific. The collector/emitter junction
> > > conducts in one direction much like a diode which it should not
> > > conduct at all I believe.
> > >
> > > It may be because I installed D1 early, there is a small voltage .5v
> > > going into Q6 which is probably allowing q5 to pass the 12V into U3.
> > >
> > > I will keep testing tomorrow as it's well past my bedtime and can't
> > > think any more.
> > >
> > > Good progress today, got through the Si570 and all except for this
> > > voltage issue on U3 seems well.
> > >
> > > Hank
> > >

> > > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> <mailto:UHFSDR%40yahoogroups.com>, MIKE
> > > DURKIN <Patriot121@> wrote:
> > > >
> > > > not sure what you mean collector - emitter fail diode test?...
> diode
> > > junction is base - emitter ....
> > > >
> > > > so, voltage on the base does change (q5) ?
> > > >
> > > > sorry I don't have my Sdr2go to look at, but ill try to help if I
> > > can ...
> > > >
> > > > Q5 looks like a pnp ... so when the base is relatively low (don't
> > > know what voltage but its not 5v - maybe 1.5v?), the emitter to
> > > collector will conduct.
> > > >
> > > > if collector to emitter tests like a short ... well maybe its gone
> > > south ...
> > > >
> > > > To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> <mailto:UHFSDR%40yahoogroups.com>
> > > > From: hank@
> > > > Date: Fri, 25 Nov 2011 03:39:01 +0000
> > > > Subject: [UHFSDR] Re: Voltage Regulators U3-3
> > > >
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> > > >
> > > > In replying to my own question I belive Q5 is at fault. In testing

> > > Q5 it seems to fail Collector/Emitter diode testing.
> > > >
> > > >
> > > >
> > > > Replace Q5?
> > > >
> > > >
> > > >
> > > > Hank
> > > >
> > > >
> > > >
> > > > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> <mailto:UHFSDR%40yahoogroups.com>,
> > > "Hank" <hank@> wrote:
> > > >
> > > > >
> > > >
> > > > > Dave,
> > > >
> > > > >
> > > >
> > > > > In step 22 of the voltage regulators I verify 7.93V at U11-3 but
> > > without P2-1 to TP1 I am suppose to verify 0V at U3-3. I am seeing
> > > 7.93V at U3-3.
> > > >
> > > > >
> > > >
> > > > > I see after I connect jumper from P2-1 to TP1 I am suppose to see
> > > voltage at U3-3.
> > > >
> > > > >
> > > >
> > > > > Is this a problem?
> > > >
> > > > >
> > > >
> > > > > 73,
> > > >
> > > > > Hank
> > > >
> > > > > WZ3HMT
> > > >
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>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

395. Parallel Port Frequency Control

Yahoo group: UHFSDR
Date: 2011-11-26 15:24:38 UTC
From: Hank
Topic: 395 Message: 395

Sorry finished day 2 of build and have another question...:(

I have installed Windows 7, 32bit on a computer with parallel port. Made cable to connect to H1 per instructions.

Pin H1-1 to DB25 pin 14
Pin H1-2 to DB25 pin 12/13/25
Pin H1-3 to DB25 pin 4
Pin H1-4 to DB25 pin 5

Can not set frequency with either SI570.EXE from PE1NNZ or DSS Parallel from WB8LGA.

Are there any gotcha's I may have overlooked. I am running both as Administrator.

Si570 seems fine but can not verify square wave as my scope only goes to 60Mhz and I think startup frequency is 514 as labeled on the chip. Also chip is labeled AAA so I belive it is the LVPECL and I have setup board as per instructions for this type.

I have 2.04V on TP8 and 2.03V on TP9 with DVM test.

Any suggestions?

73,
Hank
WZ3HMT

396. Re: Parallel Port Frequency Control

Yahoo group: UHFSDR
Date: 2011-11-27 14:55:23 UTC
From: Hank
Topic: 395 Message: 396

After reading more posts, I found my startup frequency at 19.2Mhz which is well within my o-scope range, so I am not exactly sure why I can't verify the square wave. My DSO verify's the 19.2Mhz in the spectrum analyzer. I am sure it it something I am doing wrong but have moved on. I finished through the Transmit Op-Amps and everything except setting the Si570 frequency has worked. Surface mount has been much easier that I expected using both solder paste and 0.015 wire as suggested. I am going to try to get through receiver test today and hope that checks out as well.

73,
Hank
WZ3HMT

--- In UHFSDR@yahoogroups.com, "Hank" <hank@...> wrote:
>
> Sorry finished day 2 of build and have another question...:(
>
> I have installed Windows 7, 32bit on a computer with parallel port. Made cable to connect to H1 per instructions.
>
> Pin H1-1 to DB25 pin 14
> Pin H1-2 to DB25 pin 12/13/25
> Pin H1-3 to DB25 pin 4
> Pin H1-4 to DB25 pin 5
>
> Can not set frequency with either SI570.EXE from PE1NNZ or DSS Parallel from WB8LGA.
>
> Are there any gotcha's I may have overlooked. I am running both as Administrator.
>
> Si570 seems fine but can not verify square wave as my scope only goes to 60Mhz and I think startup frequency is 514 as labeled on the chip. Also chip is labeled AAA so I belive it is the LVPECL and I have setup board as per instructions for this type.
>
> I have 2.04V on TP8 and 2.03V on TP9 with DVM test.
>
> Any suggestions?
>
> 73,
> Hank
> WZ3HMT
>

397. RE: [UHFSDR] Re: Parallel Port Frequency Control

Yahoo group: UHFSDR
Date: 2011-11-27 15:11:40 UTC
From: MIKE DURKIN
Topic: 395 Message: 397

when doing Rx test .... don't be tricked into thinking something is wrong .... use a bandpass filter ..... I think even a tuner should work well enough for testing.

I had forgot that I had a bcbrs down the street (1 mile- KQNT) And was swamping everything .... I could hear stuff but nothing that would verify that it was working ok..... jumbled mess.

another heads up ..

To: UHFSDR@yahoogroups.com
From: hank@...
Date: Sun, 27 Nov 2011 14:55:23 +0000
Subject: [UHFSDR] Re: Parallel Port Frequency Control

After reading more posts, I found my startup frequency at 19.2Mhz which is well within my o-scope range, so I am not exactly sure why I can't verify the square wave. My DSO verify's the 19.2Mhz in the spectrum analyzer. I am sure it it something I am doing wrong but have moved on. I finished through the Transmit Op-Amps and everything except setting the Si570 frequency has worked. Surface mount has been much easier that I expected using both solder paste and 0.015 wire as suggested. I am going to try to get through receiver test today and hope that checks out as well.

73,

Hank

WZ3HMT

--- In UHFSDR@yahoogroups.com, "Hank" <hank@...> wrote:

>

> Sorry finished day 2 of build and have another question...:(

>

> I have installed Windows 7, 32bit on a computer with parallel port. Made cable to connect to H1 per instructions.

>

> Pin H1-1 to DB25 pin 14

> Pin H1-2 to DB25 pin 12/13/25

> Pin H1-3 to DB25 pin 4

> Pin H1-4 to DB25 pin 5

>

> Can not set frequency with either SI570.EXE from PE1NNZ or DSS Parallel from WB8LGA.

>

> Are there any gotcha's I may have overlooked. I am running both as Administrator.

>

> Si570 seems fine but can not verify square wave as my scope only goes to 60Mhz and I think startup frequency is 514 as labeled on the chip. Also chip is labeled AAA so I belive it is the LVPECL and I have setup board as per instructions for this type.

>

> I have 2.04V on TP8 and 2.03V on TP9 with DVM test.

>

> Any suggestions?

>

> 73,

> Hank

> WZ3HMT

>

398. Re: Parallel Port Frequency Control

Yahoo group: UHFSDR
Date: 2011-11-27 15:34:03 UTC
From: Hank
Topic: 395 Message: 398

Mike,

Thank you for the heads up. I plan on using a Si570 based frequency generator from K5BCQ I built. It works really nice and is an easy kit and great tool for around $40. After I verify it works I think I will hook it up to my antenna to see if I can hear anything. I have the BPF and LPF boards from Mike as well but not built. Those I am saving for Christmas!

Keep the suggestions coming.

73,
Hank
WZ3HMT

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
> when doing Rx test .... don't be tricked into thinking something is wrong .... use a bandpass filter ..... I think even a tuner should work well enough for testing.
>
> I had forgot that I had a bcbrs down the street (1 mile- KQNT) And was swamping everything .... I could hear stuff but nothing that would verify that it was working ok..... jumbled mess.
>
> another heads up ..
>
> To: UHFSDR@yahoogroups.com
> From: hank@...
> Date: Sun, 27 Nov 2011 14:55:23 +0000
> Subject: [UHFSDR] Re: Parallel Port Frequency Control
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> After reading more posts, I found my startup frequency at 19.2Mhz which is well within my o-scope range, so I am not exactly sure why I can't verify the square wave. My DSO verify's the 19.2Mhz in the spectrum analyzer. I am sure it it something I am doing wrong but have moved on. I finished through the Transmit Op-Amps and everything except setting the Si570 frequency has worked. Surface mount has been much easier that I expected using both solder paste and 0.015 wire as suggested. I am going to try to get through receiver test today and hope that checks out as well.
>
>
>
> 73,
>
> Hank
>
> WZ3HMT
>
>
>
> --- In UHFSDR@yahoogroups.com, "Hank" <hank@> wrote:
>
> >
>
> > Sorry finished day 2 of build and have another question...:(
>
> >
>
> > I have installed Windows 7, 32bit on a computer with parallel port. Made cable to connect to H1 per instructions.
>
> >
>
> > Pin H1-1 to DB25 pin 14
>
> > Pin H1-2 to DB25 pin 12/13/25
>
> > Pin H1-3 to DB25 pin 4
>
> > Pin H1-4 to DB25 pin 5
>
> >
>
> > Can not set frequency with either SI570.EXE from PE1NNZ or DSS Parallel from WB8LGA.
>

> >
>
> > Are there any gotcha's I may have overlooked. I am running both as Administrator.
>
> >
>
> > Si570 seems fine but can not verify square wave as my scope only goes to 60Mhz and I think startup frequency is 514 as labeled on the chip. Also chip is labeled AAA so I belive it is the LVPECL and I have setup board as per instructions for this type.
>
> >
>
> > I have 2.04V on TP8 and 2.03V on TP9 with DVM test.
>
> >
>
> > Any suggestions?
>
> >
>
> > 73,
>
> > Hank
>
> > WZ3HMT
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> >
>

399. RE: [UHFSDR] Re: Parallel Port Frequency Control

Yahoo group: UHFSDR
Date: 2011-11-27 15:38:37 UTC
From: MIKE DURKIN
Topic: 395 Message: 399

I like that one alot too .... just wish it could use a smaller display !!!

I have plans for the one I have ..... muuhhh haha ha ha aaaaa ....

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: hank@...
Date: Sun, 27 Nov 2011 15:34:03 +0000
Subject: [UHFSDR] Re: Parallel Port Frequency Control

Mike,

Thank you for the heads up. I plan on using a Si570 based frequency generator from K5BCQ I built. It works really nice and is an easy kit and great tool for around $40. After I verify it works I think I will hook it up to my antenna to see if I can hear anything. I have the BPF and LPF boards from Mike as well but not built. Those I am saving for Christmas!

Keep the suggestions coming.

73,

Hank

WZ3HMT

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:

>

> when doing Rx test .... don't be tricked into thinking something is wrong .... use a bandpass filter ..... I think even a tuner should work well enough for testing.

>

> I had forgot that I had a bcbrs down the street (1 mile- KQNT) And was swamping everything .... I could hear stuff but nothing that would verify that it was working ok..... jumbled mess.

>

> another heads up ..

>

> To: UHFSDR@yahoogroups.com

> From: hank@...

> Date: Sun, 27 Nov 2011 14:55:23 +0000

> Subject: [UHFSDR] Re: Parallel Port Frequency Control

>

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> After reading more posts, I found my startup frequency at 19.2Mhz which is well within my o-scope range, so I am not exactly sure why I can't verify the square wave. My DSO verify's the 19.2Mhz in the spectrum analyzer. I am sure it it something I am doing wrong but have moved on. I finished through the Transmit Op-Amps and everything except setting the Si570 frequency has worked. Surface mount has been much easier that I expected using both solder

paste and 0.015 wire as suggested. I am going to try to get through receiver test today and hope that checks out as well.

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>

>

> 73,

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> Hank

>

> WZ3HMT

>

>

>

> --- In UHFSDR@yahoogroups.com, "Hank" <hank@> wrote:

>

> >

>

> > Sorry finished day 2 of build and have another question...:(

>

> >

>

> > I have installed Windows 7, 32bit on a computer with parallel port. Made cable to connect to H1 per instructions.

>

> >

>

> > Pin H1-1 to DB25 pin 14

>

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>

> > Pin H1-3 to DB25 pin 4

>

> > Pin H1-4 to DB25 pin 5

>

> >

>

> > Can not set frequency with either SI570.EXE from PE1NNZ or DSS Parallel from WB8LGA.

>

> >

>

> > Are there any gotcha's I may have overlooked. I am running both as Administrator.

>

> >

>

> > Si570 seems fine but can not verify square wave as my scope only goes to 60Mhz and I think startup frequency is 514 as labeled on the chip. Also chip is labeled AAA so I belive it is the LVPECL and I have setup board as per instructions for this type.

>

> >

>

> > I have 2.04V on TP8 and 2.03V on TP9 with DVM test.

>

> >

>

> > Any suggestions?

>

> >

>

> > 73,

>

> > Hank

>

> > WZ3HMT

>

> >

>

400. It Works!

Yahoo group: UHFSDR
Date: 2011-11-27 21:15:53 UTC
From: Hank
Topic: 400 Message: 400

I was able to receive signals from both my signal generator and my dipole antenna. With the signal generator I tested 80M/40M/30M/20M all working fine. With my antenna I received signals on both 40M and 20M. I reconfigured my LPT port to the version that includes the band selection control with SDA/SCL on pins 2 and 16 and that seemed to allow me to control the Si570 frequency.

Thats enough excitement for today. I will test out transmit next but I have to order some more Molex 2 pin locking headers which I used in place of the supplied pin headers.

Kit is not bad at all for building and don't let the Surface Mount components keep you from building it. The board is layed out nicely and the suggestion to fit D1 in early should be added to the directions. Also maybe a note on paying attention to U9 orientation. During the testing I was checking pin 7 when I was suppose to be looking at pin 3. Once I realized the orientation, my tests worked fine. Probably would have caught that sooner but it was close to 1AM when I was making the tests.

Having lots of fun, thanks for a great kit Dave!

73,
Hank
WZ3HMT

401. Re: [UHFSDR] It Works!

Yahoo group: UHFSDR
Date: 2011-11-27 21:18:52 UTC
From: Oliver Goldenstein
Topic: 400 Message: 401

Hi Hank !

Glad that you got it working.

I will follow tomorrow and start my build.

73 Oliver DL6KBG

On 27 November 2011 22:15, Hank <hank@plastekgroup.com> wrote:
> I was able to receive signals from both my signal generator and my dipole antenna. With the signal generator I tested 80M/40M/30M/20M all working fine. With my antenna I received signals on both 40M and 20M. I reconfigured my LPT port to the version that includes the band selection control with SDA/SCL on pins 2 and 16 and that seemed to allow me to control the Si570 frequency.
>
> Thats enough excitement for today. I will test out transmit next but I have to order some more Molex 2 pin locking headers which I used in place of the supplied pin headers.
>
> Kit is not bad at all for building and don't let the Surface Mount components keep you from building it. The board is layed out nicely and the suggestion to fit D1 in early should be added to the directions. Also maybe a note on paying attention to U9 orientation. During the testing I was checking pin 7 when I was suppose to be looking at pin 3. Once I realized the orientation, my tests worked fine. Probably would have caught that sooner but it was close to 1AM when I was making the tests.
>
> Having lots of fun, thanks for a great kit Dave!
>
> 73,
> Hank
> WZ3HMT
>
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Oliver, DL6KBG, JO61UB
Blog: http://dl6kbg.blogspot.com

402. Re: [UHFSDR] Strangeness with U2/U7

Yahoo group: UHFSDR
Date: 2011-11-27 22:47:22 UTC
From: Sid Boyce
Topic: 254 Message: 402

Just a heads up on problems if AS157's are used.

Alan says he only ships CSH210R but all I can find are AS157's, some I ordered separately and some that definitely came as part of one of the kits, probably the first one of the original kits from Art, KY1K.

I recently was prompted by Dave that the AS157's need a 10K from +5V to pin5 (per the datasheet), but no board space allows for them. The Assembly doc mentions AS157's.

I am only able to get RX to work.

In TX RF appears on pin5 but nothing on pin3.

The 10K's didn't do the trick and I haven't yet found the AS169's to try, but I have some more on order. All I can lay my hands on at present are the pesky AS157's.

I only remembered last night that I haven't seen the 1N5822's either, so they must be hiding in the same spot.
73 ... Sid.

On 25/07/11 04:45, priddix wrote:
>
> The packet was marked HMC544 and the instructions say jumper H5-1 to
> H5-2, but I got no connection through the pins specified and it looked
> like U2 was faulty.
>
> With AS157's and AS169's on hand I changed both to AS157's and
> jumpered H5-2 to H5-3, same problem - no RX signals.
> As a SWAG I decided to jumper H5-1 and H5-2 and bingo, I'm receiving
> off-air signals. Pity I didn't try that before replacing U2 and U7.
>
> On my first UHFSDR from Art going back quite a while, they are AS157's
> and H5-2 to H5-3 has the jumper.
>
> It's as though the part has undergone a change in recent batches.
> Has anyone else encountered this?
> 73 ... Sid.
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

403. Re: It Works!

Yahoo group: UHFSDR
Date: 2011-11-27 23:32:34 UTC
From: Hank
Topic: 400 Message: 403

Made a mistake, pin 1/16 on DB25 were for SDA/SDL. That was the version listed in the LPT connections.pdf file. I could not get the LPT cable in the assembly manual to work with Si570.exe.

Anyway it works in PowerSDR-Iq with SDA/SDL on pin 1/16 on DB25 for sure.

Hank

--- In UHFSDR@...m, "Hank" <hank@...> wrote:
>
> I was able to receive signals from both my signal generator and my dipole antenna. With the signal generator I tested 80M/40M/30M/20M all working fine. With my antenna I received signals on both 40M and 20M. I reconfigured my LPT port to the version that includes the band selection control with SDA/SCL on pins 2 and 16 and that seemed to allow me to control the Si570 frequency.
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> Kit is not bad at all for building and don't let the Surface Mount components keep you from building it. The board is layed out nicely and the suggestion to fit D1 in early should be added to the directions. Also maybe a note on paying attention to U9 orientation. During the testing I was checking pin 7 when I was suppose to be looking at pin 3. Once I realized the orientation, my tests worked fine. Probably would have caught that sooner but it was close to 1AM when I was making the tests.
>
> Having lots of fun, thanks for a great kit Dave!
>
> 73,
> Hank
> WZ3HMT
>

404. Re: Strangeness with U2/U7

Yahoo group: UHFSDR
Date: 2011-11-28 00:43:54 UTC
From: Hank
Topic: 254 Message: 404

Sid,

I received my kit from Alan and the package says HMC554 but the actual chip is marked with S169 so I am assuming these are the AS169. I have to look into install instructions but right now I am trying to figure out what installing the AS169's require.

Hank

--- In UHFSDR@yahoogroups.com, Sid Boyce <sboyce@...> wrote:
>
> Just a heads up on problems if AS157's are used.
>
> Alan says he only ships CSH210R but all I can find are AS157's, some I
> ordered separately and some that definitely came as part of one of the
> kits, probably the first one of the original kits from Art, KY1K.
>
> I recently was prompted by Dave that the AS157's need a 10K from +5V to
> pin5 (per the datasheet), but no board space allows for them. The
> Assembly doc mentions AS157's.
>
> I am only able to get RX to work.
>
> In TX RF appears on pin5 but nothing on pin3.
>
> The 10K's didn't do the trick and I haven't yet found the AS169's to
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> I only remembered last night that I haven't seen the 1N5822's either, so
> they must be hiding in the same spot.
> 73 ... Sid.
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> > The packet was marked HMC544 and the instructions say jumper H5-1 to
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> > like U2 was faulty.
> >
> > With AS157's and AS169's on hand I changed both to AS157's and
> > jumpered H5-2 to H5-3, same problem - no RX signals.
> > As a SWAG I decided to jumper H5-1 and H5-2 and bingo, I'm receiving
> > off-air signals. Pity I didn't try that before replacing U2 and U7.
> >
> > On my first UHFSDR from Art going back quite a while, they are AS157's
> > and H5-2 to H5-3 has the jumper.
> >

> > It's as though the part has undergone a change in recent batches.
> > Has anyone else encountered this?
> > 73 ... Sid.
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> >
>
>
> --
> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
> Senior Staff Specialist, Cricket Coach
> Microsoft Windows Free Zone - Linux used for all Computing Tasks
>

405. Re: [UHFSDR] Re: Strangeness with U2/U7

Yahoo group: UHFSDR
Date: 2011-11-28 02:27:51 UTC
From: Sid Boyce
Topic: 254 Message: 405

Reading the datasheets, the AS169's are interchangeable with the HMC544,
so you should be OK. The AS157's seem to be the odd ones.
73 ... Sid.

On 28/11/11 00:43, Hank wrote:
>
> Sid,
>
> I received my kit from Alan and the package says HMC554 but the actual
> chip is marked with S169 so I am assuming these are the AS169. I have
> to look into install instructions but right now I am trying to figure
> out what installing the AS169's require.
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> Hank
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> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Sid
> Boyce <sboyce@...> wrote:
> >
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406. RE: [UHFSDR] Re: Strangeness with U2/U7

Yahoo group: UHFSDR
Date: 2011-11-28 02:42:15 UTC
From: MIKE DURKIN
Topic: 254 Message: 406

does the 5v swap pins on 4&6 when you go from Rx/tx?

To: UHFSDR@yahoogroups.com
From: hank@...
Date: Mon, 28 Nov 2011 00:43:54 +0000
Subject: [UHFSDR] Re: Strangeness with U2/U7

Sid,

I received my kit from Alan and the package says HMC554 but the actual chip is marked with S169 so I am assuming these are the AS169. I have to look into install instructions but right now I am trying to figure out what installing the AS169's require.

Hank

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407. Re: Strangeness with U2/U7

Yahoo group: UHFSDR
Date: 2011-11-28 03:21:22 UTC
From: Hank
Topic: 254 Message: 407

Sid,

Now I'm a little confused, the instructions show AS157 and AS169 using same H5-2 to H5-3 and shows different steps for testing than HMC544. . If the AS169 data sheet shows the AS169 are interchangeable with HMC544 wouldn't you think you would use the same pins on H5? HMC544 uses pins H5-1 to H5-2, and same tests. I plan to use removable jumper on H5 and hopefully will be able to figure this one out. I am stuck as my kit had 11 10K resistors and I am one short. I have an order into Digikey for that so I have to wait to test things out.

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408. RE: [UHFSDR] Re: Strangeness with U2/U7

Yahoo group: UHFSDR
Date: 2011-11-28 03:34:51 UTC
From: MIKE DURKIN
Topic: 254 Message: 408

im not 100% .... the pins might be the same
.. but polarity for no/nc (4&6) might be deferent ....

I had issues with rx tx .... but I eventually got it sorted out ...

To: UHFSDR@yahoogroups.com
From: hank@...
Date: Mon, 28 Nov 2011 03:21:22 +0000
Subject: [UHFSDR] Re: Strangeness with U2/U7

Sid,

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409. RE: [UHFSDR] Re: Strangeness with U2/U7

Yahoo group: UHFSDR
Date: 2011-11-28 03:46:09 UTC
From: The Silver Fox
Topic: 254 Message: 409

Sorry about the resistor count. I would have gladly sent you parts if you had let me know. I'll check my remaining stock for additional shortages.

73's

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Hank
Sent: Sunday, November 27, 2011 7:21 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Re: Strangeness with U2/U7

Sid,

Now I'm a little confused, the instructions show AS157 and AS169 using same H5-2 to H5-3 and shows different steps for testing than HMC544. . If the AS169 data sheet shows the AS169 are interchangeable with HMC544 wouldn't you think you would use the same pins on H5? HMC544 uses pins H5-1 to H5-2, and same tests. I plan to use removable jumper on H5 and hopefully will be able to figure this one out. I am stuck as my kit had 11 10K resistors and I am one short. I have an order into Digikey for that so I have to wait to test things out.

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410. Re: [UHFSDR] Re: Strangeness with U2/U7

Yahoo group: UHFSDR
Date: 2011-11-28 12:21:09 UTC
From: Sid Boyce
Topic: 254 Message: 410

They were OK before I installed the 10K's, so should still be.
73 ... Sid.

On 28/11/11 02:42, MIKE DURKIN wrote:
>
> does the 5v swap pins on 46 when you go from Rx/tx?
>
> ---
> To: UHFSDR@yahoogroups.com
> From: hank@...
> Date: Mon, 28 Nov 2011 00:43:54 +0000
> Subject: [UHFSDR] Re: Strangeness with U2/U7
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411. Re: [UHFSDR] Re: Strangeness with U2/U7

Yahoo group: UHFSDR
Date: 2011-11-28 12:44:27 UTC
From: Sid Boyce
Topic: 254 Message: 411

It can be confusing.
That may indeed be a polarity issue, so here's what I got when using the
Assembly doc where the 10K's were not mentioned so were not included.
H5 1->2 RX OK, TX not OK.
H5 2->3 RX not OK, didn't try TX.

Looking at the data sheet truth table again.
The AS157 --- pin 4 High pin5 --> Pin1 (RX)
pin 6 High pin5 --> Pin3 (TX)
That means H5 2 -> 3 should be strapped.

I'll have to recheck those now the 10K's are installed.
73 ... Sid.

On 28/11/11 03:34, MIKE DURKIN wrote:
>
> im not 100% .... the pins might be the same
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> > > > > The packet was marked HMC544 and the instructions say jumper
> H5-1 to
> > > > > H5-2, but I got no connection through the pins specified and it

> > > looked
> > > > > like U2 was faulty.
> > > > >
> > > > > With AS157's and AS169's on hand I changed both to AS157's and
> > > > > jumpered H5-2 to H5-3, same problem - no RX signals.
> > > > > As a SWAG I decided to jumper H5-1 and H5-2 and bingo, I'm
> receiving
> > > > > off-air signals. Pity I didn't try that before replacing U2
> and U7.
> > > > > >
> > > > > On my first UHFSDR from Art going back quite a while, they are
> > > AS157's
> > > > > and H5-2 to H5-3 has the jumper.
> > > > > >
> > > > > It's as though the part has undergone a change in recent batches.
> > > > > Has anyone else encountered this?
> > > > > 73 ... Sid.
> > > > > >
> > > > > >
> > > > >
> > > > >
> > > > > --
> > > > Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
> > > > Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
> > > > Senior Staff Specialist, Cricket Coach
> > > > Microsoft Windows Free Zone - Linux used for all Computing Tasks
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--
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412. Re: Strangeness with U2/U7

Yahoo group: UHFSDR
Date: 2011-11-28 23:23:52 UTC
From: Hank
Topic: 254 Message: 412

Alan,

Thank you for the offer. I should have asked first, but no big deail. Just one resistor off and I was substituting the included headers for a little better Molex connectors, keyed with a ridge lock for the connections from the UHFSDR board to the computer. Was placing the order anyway and it was less than $1 for 10 of the resistors, 9 will go into stock.

I should have thanked you also for the great kit. The way you have layed out the parts makes it easier build and can get started right away. With other kits I had to sort through components and believe me, there were more missing from those kits.

73,
Hank
WZ3HMT

--- In UHFSDR@yahoogroups.com, "The Silver Fox" <alan.r.hill@...> wrote:
>
> Sorry about the resistor count. I would have gladly sent you parts if you
> had let me know. I'll check my remaining stock for additional shortages.
>
> 73's
>
> Alan - W6ARH
>
>
>
> From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
> Hank
> Sent: Sunday, November 27, 2011 7:21 PM
> To: UHFSDR@yahoogroups.com
> Subject: [UHFSDR] Re: Strangeness with U2/U7
>
>
>
>
>
> Sid,
>
> Now I'm a little confused, the instructions show AS157 and AS169 using same
> H5-2 to H5-3 and shows different steps for testing than HMC544. . If the
> AS169 data sheet shows the AS169 are interchangeable with HMC544 wouldn't
> you think you would use the same pins on H5? HMC544 uses pins H5-1 to H5-2,
> and same tests. I plan to use removable jumper on H5 and hopefully will be
> able to figure this one out. I am stuck as my kit had 11 10K resistors and I
> am one short. I have an order into Digikey for that so I have to wait to
> test things out.

>
> Hank
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com> , Sid Boyce
> <sboyce@> wrote:
> >
> > Reading the datasheets, the AS169's are interchangeable with the HMC544,
> > so you should be OK. The AS157's seem to be the odd ones.
> > 73 ... Sid.
> >
> > On 28/11/11 00:43, Hank wrote:
> > >
> > > Sid,
> > >
> > > I received my kit from Alan and the package says HMC554 but the actual
> > > chip is marked with S169 so I am assuming these are the AS169. I have
> > > to look into install instructions but right now I am trying to figure
> > > out what installing the AS169's require.
> > >
> > > Hank
> > >
> > > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> <mailto:UHFSDR%40yahoogroups.com>, Sid
> > > Boyce <sboyce@> wrote:
> > > >
> > > > Just a heads up on problems if AS157's are used.
> > > >
> > > > Alan says he only ships CSH210R but all I can find are AS157's, some I
> > > > ordered separately and some that definitely came as part of one of the
> > > > kits, probably the first one of the original kits from Art, KY1K.
> > > >
> > > > I recently was prompted by Dave that the AS157's need a 10K from +5V
> to
> > > > pin5 (per the datasheet), but no board space allows for them. The
> > > > Assembly doc mentions AS157's.
> > > >
> > > > I am only able to get RX to work.
> > > >
> > > > In TX RF appears on pin5 but nothing on pin3.
> > > >
> > > > The 10K's didn't do the trick and I haven't yet found the AS169's to
> > > > try, but I have some more on order. All I can lay my hands on at
> > > present
> > > > are the pesky AS157's.
> > > >
> > > > I only remembered last night that I haven't seen the 1N5822's
> > > either, so
> > > > they must be hiding in the same spot.
> > > > 73 ... Sid.
> > > >

> > > > On 25/07/11 04:45, priddix wrote:
> > > > >
> > > > > The packet was marked HMC544 and the instructions say jumper H5-1 to
> > > > > H5-2, but I got no connection through the pins specified and it
> > > looked
> > > > > like U2 was faulty.
> > > > >
> > > > > With AS157's and AS169's on hand I changed both to AS157's and
> > > > > jumpered H5-2 to H5-3, same problem - no RX signals.
> > > > > As a SWAG I decided to jumper H5-1 and H5-2 and bingo, I'm receiving
> > > > > off-air signals. Pity I didn't try that before replacing U2 and U7.
> > > > >
> > > > > On my first UHFSDR from Art going back quite a while, they are
> > > AS157's
> > > > > and H5-2 to H5-3 has the jumper.
> > > > >
> > > > > It's as though the part has undergone a change in recent batches.
> > > > > Has anyone else encountered this?
> > > > > 73 ... Sid.
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> > Senior Staff Specialist, Cricket Coach
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>

413. U2/U7 AS169's fails some tests for T/R RF Switching

Yahoo group: UHFSDR
Date: 2011-12-01 02:56:43 UTC
From: Hank
Topic: 413 Message: 413

I have the AS169's in my kit and am at the T/R RF switching tests.

I have tried with H5 set to pin 2/3 as per instructions for AS169's but this config fails following steps
203. U7-5 to U7-1 continuity and has no continuity.
204. U7-5 to U7-3 no continuity and has continuity.
208. U7-6 suppose to be 3.0-5.0V and reads 0V
209. U7-4 suppose to be 0.0-0.5V and reads 5V
With P2-1 to 5V
212. no continuity between U7-5 and U7-1 and has continuity.
213. continuity between U7-5 and U7-3 and has no continuity.

I have also tried same tests with H5 set to pin 1/2 but this still fails the following tests.
201/201/209/210/211

Any recommendations?

73,
Hank
WZ3HMT

414. Re: U2/U7 AS169's fails some tests for T/R RF Switching

Yahoo group: UHFSDR
Date: 2011-12-01 03:01:28 UTC
From: Hank
Topic: 413 Message: 414

With H5-2 to 3 I forgot to say it also fails step
199/200 voltages at U7-6 and U7-4 are reversed.

--- In UHFSDR@yahoogroups.com, "Hank" <hank@...> wrote:
>
> I have the AS169's in my kit and am at the T/R RF switching tests.
>
> I have tried with H5 set to pin 2/3 as per instructions for AS169's but this config fails following steps
> 203. U7-5 to U7-1 continuity and has no continuity.
> 204. U7-5 to U7-3 no continuity and has continuity.
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> 209. U7-4 suppose to be 0.0-0.5V and reads 5V
> With P2-1 to 5V
> 212. no continuity between U7-5 and U7-1 and has continuity.
> 213. continuity between U7-5 and U7-3 and has no continuity.
>
> I have also tried same tests with H5 set to pin 1/2 but this still fails the following tests.
> 201/201/209/210/211
>
> Any recommendations?
>
> 73,
> Hank
> WZ3HMT
>

415. Re: U2/U7 AS169's fails some tests for T/R RF Switching

Yahoo group: UHFSDR
Date: 2011-12-01 03:18:58 UTC
From: Hank
Topic: 413 Message: 415

Correction when H5-1 connected to H5-2. Follow tests fail.

201/202/206/207/210/211

When H5-2 connected to H5-3. Following test fail.

199/200/203/204/208/209/212/213

Fails fewer tests with H5-1 to H5-2 but not very reassuring.

Hank

--- In UHFSDR@yahoogroups.com, "Hank" <hank@...> wrote:
>
> With H5-2 to 3 I forgot to say it also fails step
> 199/200 voltages at U7-6 and U7-4 are reversed.
>
>
> --- In UHFSDR@yahoogroups.com, "Hank" <hank@> wrote:
> >
> > I have the AS169's in my kit and am at the T/R RF switching tests.
> >
> > I have tried with H5 set to pin 2/3 as per instructions for AS169's but this config fails following steps
> > 203. U7-5 to U7-1 continuity and has no continuity.
> > 204. U7-5 to U7-3 no continuity and has continuity.
> > 208. U7-6 suppose to be 3.0-5.0V and reads 0V
> > 209. U7-4 suppose to be 0.0-0.5V and reads 5V
> > With P2-1 to 5V
> > 212. no continuity between U7-5 and U7-1 and has continuity.
> > 213. continuity between U7-5 and U7-3 and has no continuity.
> >
> > I have also tried same tests with H5 set to pin 1/2 but this still fails the following tests.
> > 201/201/209/210/211
> >
> > Any recommendations?
> >
> > 73,
> > Hank
> > WZ3HMT
> >
>

416. Re: [UHFSDR] Re: U2/U7 AS169's fails some tests for T/R RF Switching

Yahoo group: UHFSDR
Date: 2011-12-01 03:24:37 UTC
From: Dave
Topic: 413 Message: 416

Hank:
Try it with P2-1 shorted to P2-2(GND). That insures it is in receive
mode.

Dave - WB6DHW
<http://wb6dhw.com>

On 11/30/2011 7:18 PM, Hank wrote:
>
> Correction when H5-1 connected to H5-2. Follow tests fail.
>
> 201/202/206/207/210/211
>
> When H5-2 connected to H5-3. Following test fail.
>
> 199/200/203/204/208/209/212/213
>
> Fails fewer tests with H5-1 to H5-2 but not very reassuring.
>
> Hank
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
> "Hank" <hank@...> wrote:
> >
> > With H5-2 to 3 I forgot to say it also fails step
> > 199/200 voltages at U7-6 and U7-4 are reversed.
> >
> >
> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
> "Hank" <hank@> wrote:
> > >
> > > I have the AS169's in my kit and am at the T/R RF switching tests.
> > >
> > > I have tried with H5 set to pin 2/3 as per instructions for
> AS169's but this config fails following steps
> > > 203. U7-5 to U7-1 continuity and has no continuity.
> > > 204. U7-5 to U7-3 no continuity and has continuity.
> > > 208. U7-6 suppose to be 3.0-5.0V and reads 0V
> > > 209. U7-4 suppose to be 0.0-0.5V and reads 5V
> > > With P2-1 to 5V
> > > 212. no continuity between U7-5 and U7-1 and has continuity.
> > > 213. continuity between U7-5 and U7-3 and has no continuity.
> > >
> > > I have also tried same tests with H5 set to pin 1/2 but this still
> fails the following tests.

> > > 201/201/209/210/211
> > >
> > > Any recommendations?
> > >
> > > 73,
> > > Hank
> > > WZ3HMT
> > >
> >
>
>

417. RE: [UHFSDR] U2/U7 AS169's fails some tests for T/R RF Switching

Yahoo group: UHFSDR
Date: 2011-12-01 03:25:57 UTC
From: MIKE DURKIN
Topic: 413 Message: 417

let's start with some thing basic for me... is H4 open or shorted?

Does U2/7 pins 4&6 swap high to low at tx/Rx?

the relays are not latching and I don't think there is a NO/NC condition.

what voltage is seen on t/rd during Tx &Rx?

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: hank@plastekgroup.com
Date: Thu, 1 Dec 2011 02:56:43 +0000
Subject: [UHFSDR] U2/U7 AS169's fails some tests for T/R RF Switching

I have the AS169's in my kit and am at the T/R RF switching tests.

I have tried with H5 set to pin 2/3 as per instructions for AS169's but this config fails following steps

203. U7-5 to U7-1 continuity and has no continuity.

204. U7-5 to U7-3 no continuity and has continuity.

208. U7-6 suppose to be 3.0-5.0V and reads 0V

209. U7-4 suppose to be 0.0-0.5V and reads 5V

With P2-1 to 5V

212. no continuity between U7-5 and U7-1 and has continuity.

213. continuity between U7-5 and U7-3 and has no continuity.

I have also tried same tests with H5 set to pin 1/2 but this still fails the following tests.

201/201/209/210/211

Any recommendations?

73,

Hank

WZ3HMT

418. Re: U2/U7 AS169's fails some tests for T/R RF Switching

Yahoo group: UHFSDR
Date: 2011-12-01 03:33:21 UTC
From: Hank
Topic: 413 Message: 418

Dave,

With P1-1 shorted to P1-2 tests 199/200/203/204 fail. With P1-1 to TP5 5V tests 208/209/213/213 fail.

This is with H5-2 connected to H5-3

Hank

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> Hank:
> Try it with P2-1 shorted to P2-2(GND). That insures it is in receive
> mode.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 11/30/2011 7:18 PM, Hank wrote:
> >
> > Correction when H5-1 connected to H5-2. Follow tests fail.
> >
> > 201/202/206/207/210/211
> >
> > When H5-2 connected to H5-3. Following test fail.
> >
> > 199/200/203/204/208/209/212/213
> >
> > Fails fewer tests with H5-1 to H5-2 but not very reassuring.
> >
> > Hank
> >
> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
> > "Hank" <hank@> wrote:
> > >
> > > With H5-2 to 3 I forgot to say it also fails step
> > > 199/200 voltages at U7-6 and U7-4 are reversed.
> > >
> > >
> > > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
> > "Hank" <hank@> wrote:
> > > >
> > > > I have the AS169's in my kit and am at the T/R RF switching tests.
> > > >
> > > > I have tried with H5 set to pin 2/3 as per instructions for
> > AS169's but this config fails following steps

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> > > > I have also tried same tests with H5 set to pin 1/2 but this still
> > fails the following tests.
> > > > 201/201/209/210/211
> > > >
> > > > Any recommendations?
> > > >
> > > > 73,
> > > > Hank
> > > > WZ3HMT
> > > >
> > >
> >
> >
>

419. Re: U2/U7 AS169's fails some tests for T/R RF Switching

Yahoo group: UHFSDR
Date: 2011-12-01 03:38:24 UTC
From: Hank
Topic: 413 Message: 419

Mike,

H4 is open.

Yes U2/U7 pins 4&6 Swap quite well.

I am not understanding where I am looking for t/rd, can you elaborate for me.

Hank

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
> let's start with some thing basic for me... is H4 open or shorted?
>
> Does U2/7 pins 4&6 swap high to low at tx/Rx?
>
> the relays are not latching and I don't think there is a NO/NC condition.
>
> what voltage is seen on t/rd during Tx &Rx?
>
> Mike KC7NOA
>
> To: UHFSDR@yahoogroups.com
> From: hank@...
> Date: Thu, 1 Dec 2011 02:56:43 +0000
> Subject: [UHFSDR] U2/U7 AS169's fails some tests for T/R RF Switching
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> I have the AS169's in my kit and am at the T/R RF switching tests.
>
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>
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>
> 201/201/209/210/211
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>
> Any recommendations?
>
>
>
> 73,
>
> Hank
>
> WZ3HMT
>

420. RE: [UHFSDR] Re: U2/U7 AS169's fails some tests for T/R RF Switching

Yahoo group: UHFSDR
Date: 2011-12-01 03:47:15 UTC
From: MIKE DURKIN
Topic: 413 Message: 420

according to the schematic H5-1 is part of T/RD ... im wondering what voltage is Tx/Rx is.

ok ... usually H4 is open ... just a thought.

I ended up following the voltages through U6 ... I didn't have all pins soldered ...

To: UHFSDR@yahoogroups.com
From: hank@...
Date: Thu, 1 Dec 2011 03:38:24 +0000
Subject: [UHFSDR] Re: U2/U7 AS169's fails some tests for T/R RF Switching

Mike,

H4 is open.

Yes U2/U7 pins 4&6 Swap quite well.

I am not understanding where I am looking for t/rd, can you elaborate for me.

Hank

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:

>

> let's start with some thing basic for me... is H4 open or shorted?

>

> Does U2/7 pins 4&6 swap high to low at tx/Rx?

>

> the relays are not latching and I don't think there is a NO/NC condition.

>

> what voltage is seen on t/rd during Tx &Rx?

>

> Mike KC7NOA

>

> To: UHFSDR@yahoogroups.com

> From: hank@...

> Date: Thu, 1 Dec 2011 02:56:43 +0000

> Subject: [UHFSDR] U2/U7 AS169's fails some tests for T/R RF Switching

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> I have the AS169's in my kit and am at the T/R RF switching tests.

>

>

>

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> 209. U7-4 suppose to be 0.0-0.5V and reads 5V

>

> With P2-1 to 5V

>

> 212. no continuity between U7-5 and U7-1 and has continuity.

>

> 213. continuity between U7-5 and U7-3 and has no continuity.

>

>

>

> I have also tried same tests with H5 set to pin 1/2 but this still fails the following tests.

>

> 201/201/209/210/211

>

>

>

> Any recommendations?

>

>

>

> 73,

>

> Hank

>

> WZ3HMT

>

421. Re: U2/U7 AS169's fails some tests for T/R RF Switching

Yahoo group: UHFSDR
Date: 2011-12-01 03:51:02 UTC
From: Hank
Topic: 413 Message: 421

Mike if you meant D1 during t/r. When P2-1 grounded to P2-2 D1 pm R67 side shows -.027v. When P2-1 to TP5 5V D1 on R67 side shows .09V

Hank

--- In UHFSDR@yahoogroups.com, "Hank" <hank@...> wrote:
>
> Mike,
>
> H4 is open.
>
> Yes U2/U7 pins 4&6 Swap quite well.
>
> I am not understanding where I am looking for t/rd, can you elaborate for me.
>
> Hank
>
> --- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@> wrote:
> >
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> >
> > Does U2/7 pins 4&6 swap high to low at tx/Rx?
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> > Mike KC7NOA
> >
> > To: UHFSDR@yahoogroups.com
> > From: hank@
> > Date: Thu, 1 Dec 2011 02:56:43 +0000
> > Subject: [UHFSDR] U2/U7 AS169's fails some tests for T/R RF Switching
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> > 203. U7-5 to U7-1 continuity and has no continuity.
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> > With P2-1 to 5V
> >
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> >
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> >
> >
> >
> > I have also tried same tests with H5 set to pin 1/2 but this still fails the following tests.
> >
> > 201/201/209/210/211
> >
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> >
> > Any recommendations?
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> >
> >
> > 73,
> >
> > Hank
> >

> > WZ3HMT
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>

422. Re: U2/U7 AS169's fails some tests for T/R RF Switching

Yahoo group: UHFSDR
Date: 2011-12-01 03:56:22 UTC
From: Hank
Topic: 413 Message: 422

Mike I am looking at schematic too on RF_Amps.sch and I think you are refering to the T/R-> with an arrow not a D? With pins 2/3 on H5 jumpered, I have 5V on both pins. H5-1 has 0V.

Hank

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
> according to the schematic H5-1 is part of T/RD ... im wondering what voltage is Tx/Rx is.
>
> ok ... usually H4 is open ... just a thought.
>
> I ended up following the voltages through U6 ... I didn't have all pins soldered ...
>
> To: UHFSDR@yahoogroups.com
> From: hank@...
> Date: Thu, 1 Dec 2011 03:38:24 +0000
> Subject: [UHFSDR] Re: U2/U7 AS169's fails some tests for T/R RF Switching
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> Mike,
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> H4 is open.
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> Yes U2/U7 pins 4&6 Swap quite well.
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>
> I am not understanding where I am looking for t/rd, can you elaborate for me.
>
>
>
> Hank
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>
> --- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@> wrote:
>
> >
>
> > let's start with some thing basic for me... is H4 open or shorted?
>
> >
>
> > Does U2/7 pins 4&6 swap high to low at tx/Rx?
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>
> > the relays are not latching and I don't think there is a NO/NC condition.
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>
> > what voltage is seen on t/rd during Tx &Rx?
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>
> > Mike KC7NOA
>
> >
>
> > To: UHFSDR@yahoogroups.com
>
> > From: hank@
>
> > Date: Thu, 1 Dec 2011 02:56:43 +0000
>
> > Subject: [UHFSDR] U2/U7 AS169's fails some tests for T/R RF Switching
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> > I have the AS169's in my kit and am at the T/R RF switching tests.
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> > I have tried with H5 set to pin 2/3 as per instructions for AS169's but this config fails following steps
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> > 203. U7-5 to U7-1 continuity and has no continuity.
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> > 204. U7-5 to U7-3 no continuity and has continuity.
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> > 208. U7-6 suppose to be 3.0-5.0V and reads 0V
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>
> > 209. U7-4 suppose to be 0.0-0.5V and reads 5V
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> > With P2-1 to 5V
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> > 212. no continuity between U7-5 and U7-1 and has continuity.
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> > 213. continuity between U7-5 and U7-3 and has no continuity.
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> > I have also tried same tests with H5 set to pin 1/2 but this still fails the following tests.
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> > 201/201/209/210/211
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> > Any recommendations?
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> > 73,
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> > Hank
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> > WZ3HMT
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> >
>

423. Re: [UHFSDR] Re: Strangeness with U2/U7

Yahoo group: UHFSDR
Date: 2011-12-01 04:15:18 UTC
From: Sid Boyce
Topic: 254 Message: 423

Still a puzzle.
On 28/11/11 12:44, Sid Boyce wrote:
>
> It can be confusing.
> That may indeed be a polarity issue, so here's what I got when using
> the Assembly doc where the 10K's were not mentioned so were not included.
> H5 1->2 RX OK, TX not OK.
> H5 2->3 RX not OK, didn't try TX.
>
> Looking at the data sheet truth table again.
> The AS157 --- pin 4 High pin5 --> Pin1 (RX)
> pin 6 High pin5 --> Pin3 (TX)
> That means H5 2 -> 3 should be strapped.
>
> I'll have to recheck those now the 10K's are installed.
> 73 ... Sid.
>
With 10K's installed to AS157's Pin 5 -> +5V. I can see definitely 157
marked on both and the datasheet suggests H5 2->3 is required.

H5 2->3 TX works, RX doesn't - I can see RF on the scope at the antenna.
H5 1->2 RX works, TX doesn't.

With H5 1->2

RX - U2-6 +5V U7-4 +5V
TX - U2-4 +5V U7-6 +5V

The inputs to the AS157's are toggling between RX and TX. If pin 6 is at
+5V, pin 4 is at 0V and vice versa.
I still haven't found my AS169's, so I may have to wait until the others
on order arrive.
I may have one more try at replacing with new AS157's I have to hand.

The real puzzle is that H5 1->2 works only for RX and H5 2->3 works only
for TX.
73 ... Sid.

>
> On 28/11/11 03:34, MIKE DURKIN wrote:
>
>> im not 100% .... the pins might be the same
>> .. but polarity for no/nc (46) might be deferent ....
>>
>> I had issues with rx tx .... but I eventually got it sorted out ...
>>

>> ----------
>> To: UHFSDR@yahoogroups.com
>> From: hank@...
>> Date: Mon, 28 Nov 2011 03:21:22 +0000
>> Subject: [UHFSDR] Re: Strangeness with U2/U7
>>
>> Sid,
>>
>> Now I'm a little confused, the instructions show AS157 and AS169
>> using same H5-2 to H5-3 and shows different steps for testing than
>> HMC544. . If the AS169 data sheet shows the AS169 are interchangeable
>> with HMC544 wouldn't you think you would use the same pins on H5?
>> HMC544 uses pins H5-1 to H5-2, and same tests. I plan to use
>> removable jumper on H5 and hopefully will be able to figure this one
>> out. I am stuck as my kit had 11 10K resistors and I am one short. I
>> have an order into Digikey for that so I have to wait to test things out.
>>
>> Hank
>>
>> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Sid
>> Boyce <sboyce@...> wrote:
>> >
>> > Reading the datasheets, the AS169's are interchangeable with the
>> HMC544,
>> > so you should be OK. The AS157's seem to be the odd ones.
>> > 73 ... Sid.
>> >
>> > On 28/11/11 00:43, Hank wrote:
>> > >
>> > > Sid,
>> > >
>> > > I received my kit from Alan and the package says HMC554 but the
>> actual
>> > > chip is marked with S169 so I am assuming these are the AS169. I
>> have
>> > > to look into install instructions but right now I am trying to
>> figure
>> > > out what installing the AS169's require.
>> > >
>> > > Hank
>> > >
>> > > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
>> <mailto:UHFSDR%40yahoogroups.com>, Sid
>> > > Boyce <sboyce@> wrote:
>> > > >
>> > > > Just a heads up on problems if AS157's are used.
>> > > >
>> > > > Alan says he only ships CSH210R but all I can find are AS157's,
>> some I
>> > > > ordered separately and some that definitely came as part of one

>> of the
>> > > > kits, probably the first one of the original kits from Art, KY1K.
>> > > >
>> > > > I recently was prompted by Dave that the AS157's need a 10K
>> from +5V to
>> > > > pin5 (per the datasheet), but no board space allows for them. The
>> > > > Assembly doc mentions AS157's.
>> > > >
>> > > > I am only able to get RX to work.
>> > > >
>> > > > In TX RF appears on pin5 but nothing on pin3.
>> > > >
>> > > > The 10K's didn't do the trick and I haven't yet found the
>> AS169's to
>> > > > try, but I have some more on order. All I can lay my hands on at
>> > > present
>> > > > are the pesky AS157's.
>> > > >
>> > > > I only remembered last night that I haven't seen the 1N5822's
>> > > either, so
>> > > > they must be hiding in the same spot.
>> > > > 73 ... Sid.
>> > > >
>> > > > On 25/07/11 04:45, priddix wrote:
>> > > > >
>> > > > > The packet was marked HMC544 and the instructions say jumper
>> H5-1 to
>> > > > > H5-2, but I got no connection through the pins specified and it
>> > > looked
>> > > > > like U2 was faulty.
>> > > > >
>> > > > > With AS157's and AS169's on hand I changed both to AS157's and
>> > > > > jumpered H5-2 to H5-3, same problem - no RX signals.
>> > > > > As a SWAG I decided to jumper H5-1 and H5-2 and bingo, I'm
>> receiving
>> > > > > off-air signals. Pity I didn't try that before replacing U2
>> and U7.
>> > > > >
>> > > > > On my first UHFSDR from Art going back quite a while, they are
>> > > AS157's
>> > > > > and H5-2 to H5-3 has the jumper.
>> > > > >
>> > > > > It's as though the part has undergone a change in recent batches.
>> > > > > Has anyone else encountered this?
>> > > > > 73 ... Sid.
>> > > > >
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>> > > >
>> > > > --

>> > > > Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
>> > > > Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
>> > > > Senior Staff Specialist, Cricket Coach
>> > > > Microsoft Windows Free Zone - Linux used for all Computing Tasks
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--
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Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

424. RE: [UHFSDR] Re: U2/U7 AS169's fails some tests for T/R RF Switching

Yahoo group: UHFSDR
Date: 2011-12-01 04:43:11 UTC
From: MIKE DURKIN
Topic: 413 Message: 424

sounds like your getting close to getting it sorted out...

To: UHFSDR@yahoogroups.com
From: hank@...
Date: Thu, 1 Dec 2011 03:56:22 +0000
Subject: [UHFSDR] Re: U2/U7 AS169's fails some tests for T/R RF Switching

Mike I am looking at schematic too on RF_Amps.sch and I think you are refering to the T/R-> with an arrow not a D? With pins 2/3 on H5 jumpered, I have 5V on both pins. H5-1 has 0V.

Hank

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:

>

> according to the schematic H5-1 is part of T/RD ... im wondering what voltage is Tx/Rx is.

>

> ok ... usually H4 is open ... just a thought.

>

> I ended up following the voltages through U6 ... I didn't have all pins soldered ...

>

> To: UHFSDR@yahoogroups.com

> From: hank@...

> Date: Thu, 1 Dec 2011 03:38:24 +0000

> Subject: [UHFSDR] Re: U2/U7 AS169's fails some tests for T/R RF Switching

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> Mike,

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> H4 is open.

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> Yes U2/U7 pins 4&6 Swap quite well.

>

>

>

> I am not understanding where I am looking for t/rd, can you elaborate for me.

>

>

>

> Hank

>

>

>

> --- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@> wrote:

>

> >

>

> > let's start with some thing basic for me... is H4 open or shorted?

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> >

>

> > Does U2/7 pins 4&6 swap high to low at tx/Rx?

>

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>

> > the relays are not latching and I don't think there is a NO/NC condition.

>

> >

>

> > what voltage is seen on t/rd during Tx &Rx?

>

> >

>

> > Mike KC7NOA

>

> >

>

> > To: UHFSDR@yahoogroups.com

>

> > From: hank@

>

> > Date: Thu, 1 Dec 2011 02:56:43 +0000

>

> > Subject: [UHFSDR] U2/U7 AS169's fails some tests for T/R RF Switching

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> > I have the AS169's in my kit and am at the T/R RF switching tests.

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> > I have tried with H5 set to pin 2/3 as per instructions for AS169's but this config fails following steps

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> > 203. U7-5 to U7-1 continuity and has no continuity.

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> > 204. U7-5 to U7-3 no continuity and has continuity.

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> > 208. U7-6 suppose to be 3.0-5.0V and reads 0V

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> > 209. U7-4 suppose to be 0.0-0.5V and reads 5V

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> > With P2-1 to 5V

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> > 212. no continuity between U7-5 and U7-1 and has continuity.

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> >

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> > 213. continuity between U7-5 and U7-3 and has no continuity.

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> > I have also tried same tests with H5 set to pin 1/2 but this still fails the following tests.

>

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> > 201/201/209/210/211

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> > Any recommendations?

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> > 73,

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> > Hank

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> > WZ3HMT

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425. Re: [UHFSDR] U2/U7 AS169's fails some tests for T/R RF Switching

Yahoo group: UHFSDR
Date: 2011-12-01 06:27:55 UTC
From: Dave
Topic: 413 Message: 425

H4 can be either way. Shorted if you want separate receive and
transmit antennas. Open if you want a common antenna.

Dave - WB6DHW
<http://wb6dhw.com>

On 11/30/2011 7:25 PM, MIKE DURKIN wrote:
>
> let's start with some thing basic for me... is H4 open or shorted?
>
> Does U2/7 pins 46 swap high to low at tx/Rx?
>
> the relays are not latching and I don't think there is a NO/NC condition.
>
> what voltage is seen on t/rd during Tx &Rx?
>
> Mike KC7NOA
>
> ---
> To: UHFSDR@yahoogroups.com
> From: hank@...
> Date: Thu, 1 Dec 2011 02:56:43 +0000
> Subject: [UHFSDR] U2/U7 AS169's fails some tests for T/R RF Switching
>
> I have the AS169's in my kit and am at the T/R RF switching tests.
>
> I have tried with H5 set to pin 2/3 as per instructions for AS169's
> but this config fails following steps
> 203. U7-5 to U7-1 continuity and has no continuity.
> 204. U7-5 to U7-3 no continuity and has continuity.
> 208. U7-6 suppose to be 3.0-5.0V and reads 0V
> 209. U7-4 suppose to be 0.0-0.5V and reads 5V
> With P2-1 to 5V
> 212. no continuity between U7-5 and U7-1 and has continuity.
> 213. continuity between U7-5 and U7-3 and has no continuity.
>
> I have also tried same tests with H5 set to pin 1/2 but this still
> fails the following tests.
> 201/201/209/210/211
>
> Any recommendations?
>
> 73,
> Hank
> WZ3HMT

>
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>
>

426. Re: [UHFSDR] Re: U2/U7 AS169's fails some tests for T/R RF Switching

Yahoo group: UHFSDR
Date: 2011-12-01 06:59:48 UTC
From: Dave
Topic: 413 Message: 426

Hank:
Looking at the schematic and the instructions and a previous version of the instructions, it appears the instructions are in error. I remember I had a lot of trouble figuring that out. I will look at the data sheet for the AS169 and the schematic again. It it is the instructions, I will post a corrected version. I would have thought others would have caught that, unless they put it together without going thru the instruction manual.

Dave - WB6DHW
<http://wb6dhw.com>

On 11/30/2011 7:33 PM, Hank wrote:
>
> Dave,
>
> With P1-1 shorted to P1-2 tests 199/200/203/204 fail. With P1-1 to TP5
> 5V tests 208/209/213/213 fail.
>
> This is with H5-2 connected to H5-3
>
> Hank
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Dave
> <dave@...> wrote:
> >
> > Hank:
> > Try it with P2-1 shorted to P2-2(GND). That insures it is in receive
> > mode.
> >
> > Dave - WB6DHW
> > <http://wb6dhw.com>
> >
> > On 11/30/2011 7:18 PM, Hank wrote:
> > >
> > > Correction when H5-1 connected to H5-2. Follow tests fail.
> > >
> > > 201/202/206/207/210/211
> > >
> > > When H5-2 connected to H5-3. Following test fail.
> > >
> > > 199/200/203/204/208/209/212/213
> > >
> > > Fails fewer tests with H5-1 to H5-2 but not very reassuring.
> > >

> > > Hank
> > >
> > > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> <mailto:UHFSDR%40yahoogroups.com>,
> > > "Hank" <hank@> wrote:
> > > >
> > > > With H5-2 to 3 I forgot to say it also fails step
> > > > 199/200 voltages at U7-6 and U7-4 are reversed.
> > > >
> > > >
> > > > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
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> > > "Hank" <hank@> wrote:
> > > > >
> > > > > I have the AS169's in my kit and am at the T/R RF switching tests.
> > > > >
> > > > > I have tried with H5 set to pin 2/3 as per instructions for
> > > AS169's but this config fails following steps
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> > > > > With P2-1 to 5V
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> > > > >
> > > > > I have also tried same tests with H5 set to pin 1/2 but this
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> > > > >
> > > > > Any recommendations?
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> > > > > 73,
> > > > > Hank
> > > > > WZ3HMT
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427. Re: U2/U7 AS169's fails some tests for T/R RF Switching

Yahoo group: UHFSDR
Date: 2011-12-01 11:49:05 UTC
From: Hank
Topic: 413 Message: 427

Dave,

Thank you for taking time to look into this. I am glad there is a reason. I'll wait to see what you find out.

Hank

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> Hank:
> Looking at the schematic and the instructions and a previous version
> of the instructions, it appears the instructions are in error. I
> remember I had a lot of trouble figuring that out. I will look at the
> data sheet for the AS169 and the schematic again. It it is the
> instructions, I will post a corrected version. I would have thought
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> > > > Correction when H5-1 connected to H5-2. Follow tests fail.
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> > > >
> > > > Hank
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> > > > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
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> > > > > > I have the AS169's in my kit and am at the T/R RF switching tests.
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> > > > > > I have also tried same tests with H5 set to pin 1/2 but this
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> > > > > > Any recommendations?
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> > > > > > 73,
> > > > > > Hank
> > > > > > WZ3HMT
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428. RE: [UHFSDR] Re: U2/U7 AS169's fails some tests for T/R RF Switching

Yahoo group: UHFSDR
Date: 2011-12-01 15:43:04 UTC
From: MIKE DURKIN
Topic: 413 Message: 428

im not sure if it was Alan or Dave that mentioned the manual being incorrect .... but I thought I would mention that I didn't quite follow the instructions too much as far as testing until it was completed. All that I tested during build was regulators and the Si570 for freq change .... the rest of my goofs were fixed post completion ...

Now I need to populate the header for programming the Pic to firmware 1.8...

To: UHFSDR@yahoogroups.com
From: hank@...
Date: Thu, 1 Dec 2011 11:49:05 +0000
Subject: [UHFSDR] Re: U2/U7 AS169's fails some tests for T/R RF Switching

Dave,

Thank you for taking time to look into this. I am glad there is a reason. I'll wait to see what you find out.

Hank

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:

>

> Hank:

> Looking at the schematic and the instructions and a previous version

> of the instructions, it appears the instructions are in error. I

> remember I had a lot of trouble figuring that out. I will look at the

> data sheet for the AS169 and the schematic again. It it is the

> instructions, I will post a corrected version. I would have thought

> others would have caught that, unless they put it together without going

> thru the instruction manual.

>

> Dave - WB6DHW

> <http://wb6dhw.com>

>

> On 11/30/2011 7:33 PM, Hank wrote:

> >

> > Dave,

> >

> > With P1-1 shorted to P1-2 tests 199/200/203/204 fail. With P1-1 to TP5

> > 5V tests 208/209/213/213 fail.

> >

> > This is with H5-2 connected to H5-3

> >

> > Hank

> >

> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Dave

> > <dave@> wrote:

> > >

> > > Hank:

> > > Try it with P2-1 shorted to P2-2(GND). That insures it is in receive

> > > mode.

> > >

> > > Dave - WB6DHW

> > > <http://wb6dhw.com>

> > >

> > > On 11/30/2011 7:18 PM, Hank wrote:

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> > > > Correction when H5-1 connected to H5-2. Follow tests fail.

> > > >

> > > > 201/202/206/207/210/211

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> > > > When H5-2 connected to H5-3. Following test fail.

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> > > > 199/200/203/204/208/209/212/213

> > > >

> > > > Fails fewer tests with H5-1 to H5-2 but not very reassuring.

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> > > > Hank

> > > >

> > > > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>

> > <mailto:UHFSDR%40yahoogroups.com>,

> > > > "Hank" <hank@> wrote:

> > > > >

> > > > > With H5-2 to 3 I forgot to say it also fails step

> > > > > 199/200 voltages at U7-6 and U7-4 are reversed.

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> > > > > > Any recommendations?

> > > > > >

> > > > > > 73,

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> > > > > > WZ3HMT

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429. Re: U2/U7 AS169's fails some tests for T/R RF Switching

Yahoo group: UHFSDR
Date: 2011-12-03 20:24:44 UTC
From: Hank
Topic: 413 Message: 429

I believe after running a bunch of tests with the AS169's and H5 in position 1/2 and 2/3, it seems that with the AS169's H5 should be in position 1/2.

When H5 is in position 2/3 transmit and receieve on TA/RA is reversed and T and R are both kept high in both transmit/receive.

When H5 is in position 1/2 transmit and receive on TA/RA are correct as well as T and R toggles with Pin 1 on P2.

This is after walking throught the schematic and tracing the voltages. I believe this is the correct configuration, maybe Dave you can verify for me.

73,
Hank
WZ3HMT

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
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> From: hank@...
> Date: Thu, 1 Dec 2011 11:49:05 +0000
> Subject: [UHFSDR] Re: U2/U7 AS169's fails some tests for T/R RF Switching
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430. Re: [UHFSDR] Re: U2/U7 AS169's fails some tests for T/R RF Switching

Yahoo group: UHFSDR
Date: 2011-12-04 03:48:41 UTC
From: Dave
Topic: 413 Message: 430

Hank:
I think you have a problem on the board. Check to see if U6 pins
5,10 and 12 are +5VDC. If pins 10 and 13 are at 5VDC and the 74AC00 is
operating properly, it is impossible for R and T to both be high.
If T/R is ground, then with H5 2 and 3 connected U6 pins 2 and 9 will
be high. Since pin 10 is also high, then pins 8 and 13(R) will be low.
Pin 12 is +5V, so if pin 13 is low, then pin 11(T) will be High. This
will connect pins 1 and 5 of U2(which is the receive position).
If H6 is open, then U6-1 is High. With a ground on the T/R line and
H5 pins 2 and 3 connected, U6 pin 2 will also be High. This makes pins
3(RA) and 4 Low. Pin 5 is +5V, so pin 6(TA) will be High. This will
connect pin 3 to pin 5 of U 7(Receive position).
With +5V on the T/R line and H5 pin 2 connected to pin 3, a Low will
be on U6 pins 2 and 9. This causes a High on pins 3(RA) and pin 8(R).
With +5V on pins 5 and 13, pins 6(TA) and 11(T) will be Low. This puts
U7 and U2 into the transmit position.

Dave - WB6DHW
<http://wb6dhw.com>
On 12/3/2011 12:24 PM, Hank wrote:
>
> I believe after running a bunch of tests with the AS169's and H5 in
> position 1/2 and 2/3, it seems that with the AS169's H5 should be in
> position 1/2.
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> When H5 is in position 2/3 transmit and receieve on TA/RA is reversed
> and T and R are both kept high in both transmit/receive.
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> > Subject: [UHFSDR] Re: U2/U7 AS169's fails some tests for T/R RF
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431. Re: U2/U7 AS169's fails some tests for T/R RF Switching

Yahoo group: UHFSDR
Date: 2011-12-04 10:42:13 UTC
From: Hank
Topic: 413 Message: 431

Dave,

I must have made a mistake in my testing as I do not get T/R high at the same time when testing again this morning after reading your posting. I will run through it one more time to see where I went wrong.

Hank

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
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> Hank:
> I think you have a problem on the board. Check to see if U6 pins
> 5,10 and 12 are +5VDC. If pins 10 and 13 are at 5VDC and the 74AC00 is
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> > > > >
> > >
> > > > > Dave,
> > >
> > > > >
> > >
> > > > > With P1-1 shorted to P1-2 tests 199/200/203/204 fail. With P1-1
> > to TP5
> > >
> > > > > 5V tests 208/209/213/213 fail.
> > >
> > > > >
> > >
> > > > > This is with H5-2 connected to H5-3
> > >
> > > > >
> > >
> > > > > Hank
> > >
> > > > >
> > >
> > > > > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> > <mailto:UHFSDR%40yahoogroups.com>, Dave
> > >
> > > > > <dave@> wrote:
> > >
> > > > > >
> > >
> > > > > > Hank:
> > >
> > > > > > Try it with P2-1 shorted to P2-2(GND). That insures it is in
> > receive
> > >

> > > > > > mode.
> > >
> > > > > >
> > >
> > > > > > Dave - WB6DHW
> > >
> > > > > > <http://wb6dhw.com>
> > >
> > > > > >
> > >
> > > > > > On 11/30/2011 7:18 PM, Hank wrote:
> > >
> > > > > > >
> > >
> > > > > > > Correction when H5-1 connected to H5-2. Follow tests fail.
> > >
> > > > > > >
> > >
> > > > > > > 201/202/206/207/210/211
> > >
> > > > > > >
> > >
> > > > > > > When H5-2 connected to H5-3. Following test fail.
> > >
> > > > > > >
> > >
> > > > > > > 199/200/203/204/208/209/212/213
> > >
> > > > > > >
> > >
> > > > > > > Fails fewer tests with H5-1 to H5-2 but not very reassuring.
> > >
> > > > > > >
> > >
> > > > > > > Hank
> > >
> > > > > > >
> > >
> > > > > > > --- In UHFSDR@yahoogroups.com
> > <mailto:UHFSDR%40yahoogroups.com> <mailto:UHFSDR%40yahoogroups.com>
> > >
> > > > > <mailto:UHFSDR%40yahoogroups.com>,
> > >
> > > > > > > "Hank" <hank@> wrote:
> > >
> > > > > > >
> > >
> > > > > > > With H5-2 to 3 I forgot to say it also fails step
> > >
> > > > > > > 199/200 voltages at U7-6 and U7-4 are reversed.

> > >
> > > > > > > >
> > >
> > > > > > > >
> > >
> > > > > > > > --- In UHFSDR@yahoogroups.com
> > <mailto:UHFSDR%40yahoogroups.com> <mailto:UHFSDR%40yahoogroups.com>
> > >
> > > > > <mailto:UHFSDR%40yahoogroups.com>,
> > >
> > > > > > > "Hank" <hank@> wrote:
> > >
> > > > > > > > >
> > >
> > > > > > > > > I have the AS169's in my kit and am at the T/R RF
> > switching tests.
> > >
> > > > > > > > >
> > >
> > > > > > > > > I have tried with H5 set to pin 2/3 as per instructions for
> > >
> > > > > > > AS169's but this config fails following steps
> > >
> > > > > > > > > 203. U7-5 to U7-1 continuity and has no continuity.
> > >
> > > > > > > > > 204. U7-5 to U7-3 no continuity and has continuity.
> > >
> > > > > > > > > 208. U7-6 suppose to be 3.0-5.0V and reads 0V
> > >
> > > > > > > > > 209. U7-4 suppose to be 0.0-0.5V and reads 5V
> > >
> > > > > > > > > With P2-1 to 5V
> > >
> > > > > > > > > 212. no continuity between U7-5 and U7-1 and has continuity.
> > >
> > > > > > > > > 213. continuity between U7-5 and U7-3 and has no continuity.
> > >
> > > > > > > > >
> > >
> > > > > > > > > I have also tried same tests with H5 set to pin 1/2 but
> > this
> > >
> > > > > still
> > >
> > > > > > > fails the following tests.
> > >
> > > > > > > > > 201/201/209/210/211
> > >
> > > > > > > > >
> > >

> > > > > > > > > Any recommendations?
> > >
> > > > > > > > >
> > >
> > > > > > > > > 73,
> > >
> > > > > > > > > Hank
> > >
> > > > > > > > > WZ3HMT
> >
> >
> >
>

432. Board Completed but ...U1 hot

Yahoo group: UHFSDR
Date: 2011-12-04 14:04:15 UTC
From: Oliver Goldenstein
Topic: 432 Message: 432

Hi All !

Completed my Kit yesterday and must say that the built was straight forward.

I had a bad solder joint on the ADUM1251, so that at the first time i
was not able to tune the SI570.

I have connected the UHFSDR to my SDR-Widget and it tunes fine now.

I get a bunch of Signals.

Only thing i notice is, that the U1 is very hot?

--
Oliver, DL6KBG, JO61UB
Blog: http://dl6kbg.blogspot.com

433. Re: Board Completed but ...U1 hot

Yahoo group: UHFSDR
Date: 2011-12-04 14:48:09 UTC
From: Hank
Topic: 432 Message: 433

Oliver,

Congrats! U1 is hot for me also. Small heat sink until I get put into case. Having fun too!

73,
Hank
WZ3HMT

--- In UHFSDR@...m, Oliver Goldenstein <oliver.goldenstein@...> wrote:
>
> Hi All !
>
> Completed my Kit yesterday and must say that the built was straight forward.
>
> I had a bad solder joint on the ADUM1251, so that at the first time i
> was not able to tune the SI570.
>
> I have connected the UHFSDR to my SDR-Widget and it tunes fine now.
>
> I get a bunch of Signals.
>
> Only thing i notice is, that the U1 is very hot?
>
> --
> Oliver, DL6KBG, JO61UB
> Blog: http://dl6kbg.blogspot.com
>

434. Re: [UHFSDR] Re: Board Completed but ...U1 hot

Yahoo group: UHFSDR
Date: 2011-12-04 15:03:38 UTC
From: Oliver Goldenstein
Topic: 432 Message: 434

Ok, Hank, thanks fer the info. Good to know.

Thanks for all your posts the last week. Was quit helpful for me !

73 Oliver DL6KBG

On 4 December 2011 15:48, Hank <hank@...> wrote:
> Oliver,
>
> Congrats! U1 is hot for me also. Small heat sink until I get put into case. Having fun too!
>
> 73,
> Hank
> WZ3HMT
>
> --- In UHFSDR@yahoogroups.com, Oliver Goldenstein <oliver.goldenstein@...> wrote:
>>
>> Hi All !
>>
>> Completed my Kit yesterday and must say that the built was straight forward.
>>
>> I had a bad solder joint on the ADUM1251, so that at the first time i
>> was not able to tune the SI570.
>>
>> I have connected the UHFSDR to my SDR-Widget and it tunes fine now.
>>
>> I get a bunch of Signals.
>>
>> Only thing i notice is, that the U1 is very hot?
>>
>> --
>> Oliver, DL6KBG, JO61UB
>> Blog: http://dl6kbg.blogspot.com
>>
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

--
Oliver, DL6KBG, JO61UB
Blog: http://dl6kbg.blogspot.com

435. Re: [UHFSDR] Re: Board Completed but ...U1 hot

Yahoo group: UHFSDR
Date: 2011-12-04 17:39:35 UTC
From: Sid Boyce
Topic: 432 Message: 435

I moved U1 off the board, mounted it on to a 3 1/2" x 3 1/2" x 2"
heatsink that fits into an outboard 4" x 4" x 2" plastic box with a
small 2" x 2" extractor fan mounted at the back of the heatsink.

Instead of R1 I've substituted a 1N5822 schottky diode.
The metal case contains the UHFSDR, Widget with front panel mounted
Power switch, LCD, encoder, momentary switch for band changing, LED
Power indicator and on the backpanel power in, fuse holder, antenna
connector and a momentary push switch paralled off the Widget Reset
switch which I used to hold in until after power was switched on so the
Widget would come up in a proper state - no longer necessary since
Alex's recent firmware upgrade which introduced a Reset hold-off until
the voltage has settled.

There are also holes on the backpanel for audio leads and and the USB cable.

The whole unit is powered off my +13.8V main P.S and the Widget and
UHFSDR are both powered off U1, more current drawn and more heat that
needed to be got rid of.

That keeps it barely warm.
73 ... Sid.

On 04/12/11 15:03, Oliver Goldenstein wrote:
>
> Ok, Hank, thanks fer the info. Good to know.
>
> Thanks for all your posts the last week. Was quit helpful for me !
>
> 73 Oliver DL6KBG
>
> On 4 December 2011 15:48, Hank <hank@...
> <mailto:hank%40plastekgroup.com>> wrote:
> > Oliver,
> >
> > Congrats! U1 is hot for me also. Small heat sink until I get put
> into case. Having fun too!
> >
> > 73,
> > Hank
> > WZ3HMT
> >
> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
> Oliver Goldenstein <oliver.goldenstein@...> wrote:
> >>
> >> Hi All !

> >>
> >> Completed my Kit yesterday and must say that the built was straight
> forward.
> >>
> >> I had a bad solder joint on the ADUM1251, so that at the first time i
> >> was not able to tune the SI570.
> >>
> >> I have connected the UHFSDR to my SDR-Widget and it tunes fine now.
> >>
> >> I get a bunch of Signals.
> >>
> >> Only thing i notice is, that the U1 is very hot?
> >>
> >> --
> >> Oliver, DL6KBG, JO61UB
> >> Blog: http://dl6kbg.blogspot.com
> >>
> >
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
>
> --
> Oliver, DL6KBG, JO61UB
> Blog: http://dl6kbg.blogspot.com
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

436. Re: [UHFSDR] Re: Board Completed but ...U1 hot

Yahoo group: UHFSDR
Date: 2011-12-04 17:42:45 UTC
From: Sid Boyce
Topic: 432 Message: 436

BTW, I also have room in the case for a 4.5W PA when I can get the U2/U7
TX problem resolved.
73 ... Sid.

On 04/12/11 17:39, Sid Boyce wrote:
>
> I moved U1 off the board, mounted it on to a 3 1/2" x 3 1/2" x 2"
> heatsink that fits into an outboard 4" x 4" x 2" plastic box with a
> small 2" x 2" extractor fan mounted at the back of the heatsink.
>
> Instead of R1 I've substituted a 1N5822 schottky diode.
> The metal case contains the UHFSDR, Widget with front panel mounted
> Power switch, LCD, encoder, momentary switch for band changing, LED
> Power indicator and on the backpanel power in, fuse holder, antenna
> connector and a momentary push switch paralled off the Widget Reset
> switch which I used to hold in until after power was switched on so
> the Widget would come up in a proper state - no longer necessary since
> Alex's recent firmware upgrade which introduced a Reset hold-off until
> the voltage has settled.
>
> There are also holes on the backpanel for audio leads and and the USB
> cable.
>
> The whole unit is powered off my +13.8V main P.S and the Widget and
> UHFSDR are both powered off U1, more current drawn and more heat that
> needed to be got rid of.
>
> That keeps it barely warm.
> 73 ... Sid.
>
> On 04/12/11 15:03, Oliver Goldenstein wrote:
>
>> Ok, Hank, thanks fer the info. Good to know.
>>
>> Thanks for all your posts the last week. Was quit helpful for me !
>>
>> 73 Oliver DL6KBG
>>
>> On 4 December 2011 15:48, Hank <hank@...
>> <mailto:hank%40plastekgroup.com>> wrote:
>> > Oliver,
>> >
>> > Congrats! U1 is hot for me also. Small heat sink until I get put
>> into case. Having fun too!
>> >

>> > 73,
>> > Hank
>> > WZ3HMT
>> >
>> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
>> Oliver Goldenstein <oliver.goldenstein@...> wrote:
>> >>
>> >> Hi All !
>> >>
>> >> Completed my Kit yesterday and must say that the built was
>> straight forward.
>> >>
>> >> I had a bad solder joint on the ADUM1251, so that at the first time i
>> >> was not able to tune the SI570.
>> >>
>> >> I have connected the UHFSDR to my SDR-Widget and it tunes fine now.
>> >>
>> >> I get a bunch of Signals.
>> >>
>> >> Only thing i notice is, that the U1 is very hot?
>> >>
>> >> --
>> >> Oliver, DL6KBG, JO61UB
>> >> Blog: http://dl6kbg.blogspot.com
>> >>
>> >
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>> > ------------------------------------
>> >
>> > Yahoo! Groups Links
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>> >
>> >
>>
>> --
>> Oliver, DL6KBG, JO61UB
>> Blog: http://dl6kbg.blogspot.com
>>
>
>
> --
> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
> Senior Staff Specialist, Cricket Coach
> Microsoft Windows Free Zone - Linux used for all Computing Tasks
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

437. Re: [UHFSDR] Re: Board Completed but ...U1 hot

Yahoo group: UHFSDR
Date: 2011-12-04 17:44:21 UTC
From: Oliver Goldenstein
Topic: 432 Message: 437

Many many thanks dear Sid for your Information and help!

Youst replied to your earlier post regarding the sdr widget setup!

I am a week on travel, but many thanks for your help!

73 Oliver DL6KBG

On 4 December 2011 18:39, Sid Boyce <sboyce@...> wrote:

>
>
> I moved U1 off the board, mounted it on to a 3 1/2" x 3 1/2" x 2" heatsink
> that fits into an outboard 4" x 4" x 2" plastic box with a small 2" x 2"
> extractor fan mounted at the back of the heatsink.
>
> Instead of R1 I've substituted a 1N5822 schottky diode.
> The metal case contains the UHFSDR, Widget with front panel mounted Power
> switch, LCD, encoder, momentary switch for band changing, LED Power
> indicator and on the backpanel power in, fuse holder, antenna connector and
> a momentary push switch paralled off the Widget Reset switch which I used
> to hold in until after power was switched on so the Widget would come up in
> a proper state - no longer necessary since Alex's recent firmware upgrade
> which introduced a Reset hold-off until the voltage has settled.
>
> There are also holes on the backpanel for audio leads and and the USB
> cable.
>
> The whole unit is powered off my +13.8V main P.S and the Widget and UHFSDR
> are both powered off U1, more current drawn and more heat that needed to be
> got rid of.
>
> That keeps it barely warm.
> 73 ... Sid.
>
>
> On 04/12/11 15:03, Oliver Goldenstein wrote:
>
>
>
> Ok, Hank, thanks fer the info. Good to know.
>
> Thanks for all your posts the last week. Was quit helpful for me !
>
> 73 Oliver DL6KBG
>

> On 4 December 2011 15:48, Hank <hank@...> wrote:
> > Oliver,
> >
> > Congrats! U1 is hot for me also. Small heat sink until I get put into
> case. Having fun too!
> >
> > 73,
> > Hank
> > WZ3HMT
> >
> > --- In UHFSDR@yahoogroups.com, Oliver Goldenstein
> <oliver.goldenstein@...> <oliver.goldenstein@...> wrote:
> >>
> >> Hi All !
> >>
> >> Completed my Kit yesterday and must say that the built was straight
> forward.
> >>
> >> I had a bad solder joint on the ADUM1251, so that at the first time i
> >> was not able to tune the SI570.
> >>
> >> I have connected the UHFSDR to my SDR-Widget and it tunes fine now.
> >>
> >> I get a bunch of Signals.
> >>
> >> Only thing i notice is, that the U1 is very hot?
> >>
> >> --
> >> Oliver, DL6KBG, JO61UB
> >> Blog: http://dl6kbg.blogspot.com
> >>
> >
> >
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> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
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> >
>
> --
> Oliver, DL6KBG, JO61UB
> Blog: http://dl6kbg.blogspot.com
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>
>
> --
> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,

> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
> Senior Staff Specialist, Cricket Coach
> Microsoft Windows Free Zone - Linux used for all Computing Tasks
>
>
>
>

--
Oliver, DL6KBG, JO61UB
Blog: http://dl6kbg.blogspot.com

438. Re: [UHFSDR] Board Completed but ...U1 hot

Yahoo group: UHFSDR
Date: 2011-12-04 19:14:44 UTC
From: Dave
Topic: 432 Message: 438

That is normal is not heatsinked. You can either bolt it to a metal case or add a small heatsink.

Dave - WB6DHW
<http://wb6dhw.com>

On 12/4/2011 6:04 AM, Oliver Goldenstein wrote:
>
> Hi All !
>
> Completed my Kit yesterday and must say that the built was straight
> forward.
>
> I had a bad solder joint on the ADUM1251, so that at the first time i
> was not able to tune the SI570.
>
> I have connected the UHFSDR to my SDR-Widget and it tunes fine now.
>
> I get a bunch of Signals.
>
> Only thing i notice is, that the U1 is very hot?
>
> --
> Oliver, DL6KBG, JO61UB
> Blog: http://dl6kbg.blogspot.com
>
>
>

439. Re: [UHFSDR] Board Completed but ...U1 hot

Yahoo group: UHFSDR
Date: 2011-12-04 19:20:18 UTC
From: Oliver Goldenstein
Topic: 432 Message: 439

Ok, thanks a lot Dave !

Enjoyed the built. Was quit fast this time :-)

Mhh where to look for good 6-Meter and 2-Meter BPF's?

Any Suggestions?

Many thanks 73 Oliver DL6KBG

On 4 December 2011 20:14, Dave <dave@...> wrote:

>
>
> That is normal is not heatsinked. You can either bolt it to a metal
> case or add a small heatsink.
>
> Dave - WB6DHW
> <http://wb6dhw.com> <http://wb6dhw.com>
>
>
> On 12/4/2011 6:04 AM, Oliver Goldenstein wrote:
>
>
>
> gestionsHi All !
>
> Completed my Kit yesterday and must say that the built was straight
> forward.
>
> I had a bad solder joint on the ADUM1251, so that at the first time i
> was not able to tune the SI570.
>
> I have connected the UHFSDR to my SDR-Widget and it tunes fine now.
>
> I get a bunch of Signals.
>
> Only thing i notice is, that the U1 is very hot?
>
> --
> Oliver, DL6KBG, JO61UB
> Blog: http://dl6kbg.blogspot.com
>
>
>
>

>
>

--
Oliver, DL6KBG, JO61UB
Blog: http://dl6kbg.blogspot.com

440. Re: [UHFSDR] Board Completed but ...U1 hot

Yahoo group: UHFSDR
Date: 2011-12-05 00:04:10 UTC
From: Sid Boyce
Topic: 432 Message: 440

http://yu1lm.qrpradio.com/6m%20BP%20FILTER-YU1LM.pdf and others can be found with other SDR Radio designs.
73 ... Sid.

On 04/12/11 19:20, Oliver Goldenstein wrote:
>
> Ok, thanks a lot Dave !
>
> Enjoyed the built. Was quit fast this time :-)
>
> Mhh where to look for good 6-Meter and 2-Meter BPF's?
>
> Any Suggestions?
>
> Many thanks 73 Oliver DL6KBG
>
> On 4 December 2011 20:14, Dave <dave@...
> <mailto:dave@...>> wrote:
>
>
>
> That is normal is not heatsinked. You can either bolt it to a
> metal case or add a small heatsink.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
>
> On 12/4/2011 6:04 AM, Oliver Goldenstein wrote:
>>
>> gestionsHi All !
>>
>> Completed my Kit yesterday and must say that the built was
>> straight forward.
>>
>> I had a bad solder joint on the ADUM1251, so that at the first time i
>> was not able to tune the SI570.
>>
>> I have connected the UHFSDR to my SDR-Widget and it tunes fine now.
>>
>> I get a bunch of Signals.
>>
>> Only thing i notice is, that the U1 is very hot?
>>
>> --

>> Oliver, DL6KBG, JO61UB
>> Blog: http://dl6kbg.blogspot.com
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> --
> Oliver, DL6KBG, JO61UB
> Blog: http://dl6kbg.blogspot.com
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>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

441. Re: Board Completed but ...U1 hot

Yahoo group: UHFSDR
Date: 2011-12-05 03:00:37 UTC
From: Hank
Topic: 432 Message: 441

Sid,

Dave is correct about Tasa's filters as a good suggestion. I have built the Genesis SDR previously to this and his design is amazing. If you just use his web site http://yu1lm.qrpradio.com he has BPF for 1.8/50/144mhz as well as some other SDR designs.

From my experience with the Genesis project, his designs really work well.

Hank
WZ3HMT

--- In UHFSDR@yahoogroups.com, Sid Boyce <sboyce@...> wrote:
>
> http://yu1lm.qrpradio.com/6m%20BP%20FILTER-YU1LM.pdf and others can be
> found with other SDR Radio designs.
> 73 ... Sid.
>
> On 04/12/11 19:20, Oliver Goldenstein wrote:
> >
> > Ok, thanks a lot Dave !
> >
> > Enjoyed the built. Was quit fast this time :-)
> >
> > Mhh where to look for good 6-Meter and 2-Meter BPF's?
> >
> > Any Suggestions?
> >
> > Many thanks 73 Oliver DL6KBG
> >
> > On 4 December 2011 20:14, Dave <dave@...
> > <mailto:dave@...>> wrote:
> >
> >
> >
> > That is normal is not heatsinked. You can either bolt it to a
> > metal case or add a small heatsink.
> >
> > Dave - WB6DHW
> > <http://wb6dhw.com>
> >
> >
> > On 12/4/2011 6:04 AM, Oliver Goldenstein wrote:
> >>
> >> gestionsHi All !
> >>
> >> Completed my Kit yesterday and must say that the built was

> >> straight forward.
> >>
> >> I had a bad solder joint on the ADUM1251, so that at the first time i
> >> was not able to tune the SI570.
> >>
> >> I have connected the UHFSDR to my SDR-Widget and it tunes fine now.
> >>
> >> I get a bunch of Signals.
> >>
> >> Only thing i notice is, that the U1 is very hot?
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> >> --
> >> Oliver, DL6KBG, JO61UB
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> > --
> > Oliver, DL6KBG, JO61UB
> > Blog: http://dl6kbg.blogspot.com
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> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
> Senior Staff Specialist, Cricket Coach
> Microsoft Windows Free Zone - Linux used for all Computing Tasks
>

442. Re: [UHFSDR] Re: Board Completed but ...U1 hot

Yahoo group: UHFSDR
Date: 2011-12-05 03:32:18 UTC
From: Sid Boyce
Topic: 432 Message: 442

That's a site I've visited frequently for filter ideas. The most recent HF filters I quickly put together with a rotary switch for the HiQSDR came from the QRP2004 project where there is also one for 6m. The Yu1LM ones have more detailed performance data and are candidates for other than the quick lashup I needed.
73 ... Sid.

On 05/12/11 03:00, Hank wrote:
>
> Sid,
>
> Dave is correct about Tasa's filters as a good suggestion. I have
> built the Genesis SDR previously to this and his design is amazing. If
> you just use his web site http://yu1lm.qrpradio.com he has BPF for
> 1.8/50/144mhz as well as some other SDR designs.
>
> >From my experience with the Genesis project, his designs really work
> well.
>
> Hank
> WZ3HMT
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Sid
> Boyce <sboyce@...> wrote:
> >
> > http://yu1lm.qrpradio.com/6m%20BP%20FILTER-YU1LM.pdf and others can be
> > found with other SDR Radio designs.
> > 73 ... Sid.
> >
> > On 04/12/11 19:20, Oliver Goldenstein wrote:
> > >
> > > Ok, thanks a lot Dave !
> > >
> > > Enjoyed the built. Was quit fast this time :-)
> > >
> > > Mhh where to look for good 6-Meter and 2-Meter BPF's?
> > >
> > > Any Suggestions?
> > >
> > > Many thanks 73 Oliver DL6KBG
> > >
> > > On 4 December 2011 20:14, Dave <dave@...
> > > <mailto:dave@...>> wrote:
> > >
> > >

> > >
> > > That is normal is not heatsinked. You can either bolt it to a
> > > metal case or add a small heatsink.
> > >
> > > Dave - WB6DHW
> > > <http://wb6dhw.com>
> > >
> > >
> > > On 12/4/2011 6:04 AM, Oliver Goldenstein wrote:
> > >>
> > >> gestionsHi All !
> > >>
> > >> Completed my Kit yesterday and must say that the built was
> > >> straight forward.
> > >>
> > >> I had a bad solder joint on the ADUM1251, so that at the first time i
> > >> was not able to tune the SI570.
> > >>
> > >> I have connected the UHFSDR to my SDR-Widget and it tunes fine now.
> > >>
> > >> I get a bunch of Signals.
> > >>
> > >> Only thing i notice is, that the U1 is very hot?
> > >>
> > >> --
> > >> Oliver, DL6KBG, JO61UB
> > >> Blog: http://dl6kbg.blogspot.com
> > >>
> > >>
> > >
> > >
> > >
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> > >
> > >
> > > --
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443. Kits, PCBs and Parts Sale

Yahoo group: UHFSDR
Date: 2011-12-06 05:06:17 UTC
From: wraithpc
Topic: 443 Message: 443

avala sdr pcb 10.00

wa2euj 5band 50 watt amp pc board x2 12.00 EACH

bingo ssb pc board 6.00

wa2eby amp and filter pc board set 10.00

tak-40 kd8dfl pc board set 10.00

uhfsdr pc board 7.00

sr63ng sdr pc board set x2 7.00

wb6dhw bpf pc board 5.00

15 pa /bp pc boards for sr63ng, or softrock 6.3 xtal 3.00 each

eq5+ pc board set 7.00

Full MOBO4.3 FULL pc board set for SR6.3ng, or Softrock 6.3xtal 25.00

MOBO PCF8574 I/O PC BOARD 5.00

WA6UFQ UNIVERSAL CONTROLLER PC BOARD SET WITH PIC,S AND ENCODERS 20.00

WA6UFQ OSCILLATOR PC BOARD 4.00

12 OAK GRIGSBY ENCODERS 3.00 EACH

USB 12C CONTROLLER UNBUILT 12.00 SOLD WITH, OR AFTER RXTX 6.3 XTAL

RX ENSEMBLE II PARTIALLY BUILT SDR 50.00

Softrock RXTX V6.3 - sdr Xtall KIT 60.00

VU3WJM 5 DIGIT FREQUNCY COUNTER/DISPLAY 20.00

RETRO 75 TRANSCIEVER KIT BUILT, WORKED BUT RX DIED NEEDS REPAIR 30.00

5 LVDS SI570 15.00 EACH

2 CMOS SI 570 15.00

K5BCQ KEES SI570 BOARD 25.00

QRP2000 LVDS SYNTHESIZER BOARD 30.00

WB6DHW RLC METER 10.00

Also have a large lot of misc parts probably $400+ worth from mouser/digikey etc...

Would sell everything for an attractive price.

Respond off list only please

444. NOAA Weather Satellite Images

Yahoo group: UHFSDR
Date: 2011-12-07 20:21:05 UTC
From: jorge_macias33
Topic: 444 Message: 444

I have a question.
Have somebody succesfully used the UHFSDR device to download NOAA weather satellite images on the 136-138 Mhz band?

445. Re: [UHFSDR] Re: Strangeness with U2/U7 - Success!

Yahoo group: UHFSDR
Date: 2011-12-08 03:35:46 UTC
From: Sid Boyce
Topic: 254 Message: 445

In the early hours yesterday I eventually found the AS169's in the box where I had looked a number of times but the small envelope with them had been hidden by the larger envelopes. In the afternoon the other lot I ordered arrived ... end of ramble.

I replaced the AS157's and the 10K pull-ups the datasheet calls for with AS169's and strapped H5 2--> 3.
Without any checks, I fired up the UHFSDR, RX worked, changed to TX and good clear audio received on the IC-7200.

With the 2 UHFSDR's all I could find were antistatic bags marked AS157 as part of the kits I got, guessing part of Art's stash. I would hazard a guess the AS157 datasheet is wrong and showing pinouts for the AS169 instead with the addition of 10K resistors to +5V on pin 5.

It would be a good idea to have reference to AS157 removed from the Assembly doc in case later as a result of a problem someone tries using them. I had already replaced the original AS157's with other AS157's.
73 ... Sid.

On 01/12/11 04:15, Sid Boyce wrote:
>
> Still a puzzle.
> On 28/11/11 12:44, Sid Boyce wrote:
>
>> It can be confusing.
>> That may indeed be a polarity issue, so here's what I got when using
>> the Assembly doc where the 10K's were not mentioned so were not included.
>> H5 1->2 RX OK, TX not OK.
>> H5 2->3 RX not OK, didn't try TX.
>>
>> Looking at the data sheet truth table again.
>> The AS157 --- pin 4 High pin5 --> Pin1 (RX)
>> pin 6 High pin5 --> Pin3 (TX)
>> That means H5 2 -> 3 should be strapped.
>>
>> I'll have to recheck those now the 10K's are installed.
>> 73 ... Sid.
>>
> With 10K's installed to AS157's Pin 5 -> +5V. I can see definitely 157
> marked on both and the datasheet suggests H5 2->3 is required.
>
> H5 2->3 TX works, RX doesn't - I can see RF on the scope at the antenna.
> H5 1->2 RX works, TX doesn't.
>
> With H5 1->2

> ----------
> RX - U2-6 +5V U7-4 +5V
> TX - U2-4 +5V U7-6 +5V
>
> The inputs to the AS157's are toggling between RX and TX. If pin 6 is
> at +5V, pin 4 is at 0V and vice versa.
> I still haven't found my AS169's, so I may have to wait until the
> others on order arrive.
> I may have one more try at replacing with new AS157's I have to hand.
>
> The real puzzle is that H5 1->2 works only for RX and H5 2->3 works
> only for TX.
> 73 ... Sid.
>
>>
>> On 28/11/11 03:34, MIKE DURKIN wrote:
>>
>>> im not 100% .... the pins might be the same
>>> .. but polarity for no/nc (46) might be deferent ....
>>>
>>> I had issues with rx tx .... but I eventually got it sorted out ...
>>>
>>> ---
>>> To: UHFSDR@yahoogroups.com
>>> From: hank@...
>>> Date: Mon, 28 Nov 2011 03:21:22 +0000
>>> Subject: [UHFSDR] Re: Strangeness with U2/U7
>>>
>>> Sid,
>>>
>>> Now I'm a little confused, the instructions show AS157 and AS169
>>> using same H5-2 to H5-3 and shows different steps for testing than
>>> HMC544. . If the AS169 data sheet shows the AS169 are
>>> interchangeable with HMC544 wouldn't you think you would use the
>>> same pins on H5? HMC544 uses pins H5-1 to H5-2, and same tests. I
>>> plan to use removable jumper on H5 and hopefully will be able to
>>> figure this one out. I am stuck as my kit had 11 10K resistors and I
>>> am one short. I have an order into Digikey for that so I have to
>>> wait to test things out.
>>>
>>> Hank
>>>
>>> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Sid
>>> Boyce <sboyce@...> wrote:
>>> >
>>> > Reading the datasheets, the AS169's are interchangeable with the
>>> HMC544,
>>> > so you should be OK. The AS157's seem to be the odd ones.
>>> > 73 ... Sid.
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>>> > On 28/11/11 00:43, Hank wrote:
>>> > >
>>> > > Sid,
>>> > >
>>> > > I received my kit from Alan and the package says HMC554 but the
>>> actual
>>> > > chip is marked with S169 so I am assuming these are the AS169. I
>>> have
>>> > > to look into install instructions but right now I am trying to
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>>> > > out what installing the AS169's require.
>>> > >
>>> > > Hank
>>> > >
>>> > > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
>>> <mailto:UHFSDR%40yahoogroups.com>, Sid
>>> > > Boyce <sboyce@> wrote:
>>> > > >
>>> > > > Just a heads up on problems if AS157's are used.
>>> > > >
>>> > > > Alan says he only ships CSH210R but all I can find are
>>> AS157's, some I
>>> > > > ordered separately and some that definitely came as part of
>>> one of the
>>> > > > kits, probably the first one of the original kits from Art, KY1K.
>>> > > >
>>> > > > I recently was prompted by Dave that the AS157's need a 10K
>>> from +5V to
>>> > > > pin5 (per the datasheet), but no board space allows for them. The
>>> > > > Assembly doc mentions AS157's.
>>> > > >
>>> > > > I am only able to get RX to work.
>>> > > >
>>> > > > In TX RF appears on pin5 but nothing on pin3.
>>> > > >
>>> > > > The 10K's didn't do the trick and I haven't yet found the
>>> AS169's to
>>> > > > try, but I have some more on order. All I can lay my hands on at
>>> > > present
>>> > > > are the pesky AS157's.
>>> > > >
>>> > > > I only remembered last night that I haven't seen the 1N5822's
>>> > > either, so
>>> > > > they must be hiding in the same spot.
>>> > > > 73 ... Sid.
>>> > > >
>>> > > > On 25/07/11 04:45, priddix wrote:
>>> > > > >
>>> > > > > The packet was marked HMC544 and the instructions say jumper
>>> H5-1 to

>>> > > > > H5-2, but I got no connection through the pins specified and it
>>> > > looked
>>> > > > > like U2 was faulty.
>>> > > > >
>>> > > > > With AS157's and AS169's on hand I changed both to AS157's and
>>> > > > > jumpered H5-2 to H5-3, same problem - no RX signals.
>>> > > > > As a SWAG I decided to jumper H5-1 and H5-2 and bingo, I'm
>>> receiving
>>> > > > > off-air signals. Pity I didn't try that before replacing U2
>>> and U7.
>>> > > > >
>>> > > > > On my first UHFSDR from Art going back quite a while, they are
>>> > > AS157's
>>> > > > > and H5-2 to H5-3 has the jumper.
>>> > > > >
>>> > > > > It's as though the part has undergone a change in recent
>>> batches.
>>> > > > > Has anyone else encountered this?
>>> > > > > 73 ... Sid.
>>> > > > >
>>> > > > >
>>> > > >
>>> > > >
>>> > > > --
>>> > > > Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
>>> > > > Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech
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446. Re: Strangeness with U2/U7 - Success!

Yahoo group: UHFSDR
Date: 2011-12-08 03:42:43 UTC
From: Hank
Topic: 254 Message: 446

Sid,

Thank you for your post. I am stuck on having no receive after installing AS169's. I will make sure to use pins 2/3 on H5 even though some of the tests from assembly manual fail. Dave posted that he remembered there were some descrepancies on the tests for U2/U7 logic and said he was going to re-visit the assembly guide.

I have control of the Si570 frequency and can watch it change on my scope as I change bands.

Everything was working up to the point I installed AS169's so I am not sure what is happening. Though I had it figured out but was wrong. Back to the test bench tomorrow, wish me luck.

Hank

--- In UHFSDR@yahoogroups.com, Sid Boyce <sboyce@...> wrote:
>
> In the early hours yesterday I eventually found the AS169's in the box
> where I had looked a number of times but the small envelope with them
> had been hidden by the larger envelopes. In the afternoon the other lot
> I ordered arrived ... end of ramble.
>
> I replaced the AS157's and the 10K pull-ups the datasheet calls for with
> AS169's and strapped H5 2--> 3.
> Without any checks, I fired up the UHFSDR, RX worked, changed to TX and
> good clear audio received on the IC-7200.
>
> With the 2 UHFSDR's all I could find were antistatic bags marked AS157
> as part of the kits I got, guessing part of Art's stash. I would hazard
> a guess the AS157 datasheet is wrong and showing pinouts for the AS169
> instead with the addition of 10K resistors to +5V on pin 5.
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> It would be a good idea to have reference to AS157 removed from the
> Assembly doc in case later as a result of a problem someone tries using
> them. I had already replaced the original AS157's with other AS157's.
> 73 ... Sid.
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> On 01/12/11 04:15, Sid Boyce wrote:
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> > Still a puzzle.
> > On 28/11/11 12:44, Sid Boyce wrote:
> >
> >> It can be confusing.
> >> That may indeed be a polarity issue, so here's what I got when using

> >> the Assembly doc where the 10K's were not mentioned so were not included.
> >> H5 1->2 RX OK, TX not OK.
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> >> Looking at the data sheet truth table again.
> >> The AS157 --- pin 4 High pin5 --> Pin1 (RX)
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> >>> > > Boyce <sboyce@> wrote:
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> >>> > > > Just a heads up on problems if AS157's are used.
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> >>> > > > Alan says he only ships CSH210R but all I can find are
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> >>> > > > kits, probably the first one of the original kits from Art, KY1K.
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> >>> > > > I recently was prompted by Dave that the AS157's need a 10K
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> >>> and U7.
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> >>> > > > > On my first UHFSDR from Art going back quite a while, they are
> >>> > > AS157's
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>

447. Re: [UHFSDR] Re: Strangeness with U2/U7 - Success!

Yahoo group: UHFSDR
Date: 2011-12-08 05:00:03 UTC
From: Sid Boyce
Topic: 254 Message: 447

No problem Hank,
Hope you find the problem, the AS157's sure caused total confusion even after I thought I had it all figured out and correct.

I used a UBW with the first UHFSDR and I had to tune >14.3 KHz to get into the CW end of 20m. Alex issued a fix I never got to test as other problems cropped up.

Also with the first UHFSDR I had the free si570A samples, one channel failed after about a month with the UBW problem. I chased the wrong problem - working from the stereo plugs backwards and replacing components until I had no audio output and finally got to the si570 with both CLK+/- dead.

The second sample was DOA, then I got a spare sample from G1CET that was also DOA and finally I got a full spec one from George Boudreau that works.

May be towards the end SiLabs shipped out of spec devices as free samples.

Next came the AS157 RX/TX puzzle.
It's been a long slog, I reckon from Feb. 2010 until now though I have been busy with too many other projects while putting the UHFSDR to one side and just having the occasional brief look at it until now.

On 30th. Nov 2009 Art wrote:

Hittite has dismissed me with extreme prejudice and in fact, they sent an FBI agent and a Customs Agent to my home to investigate me, after stopping by my wife's place of employment to locate me. To this day, I still have no idea why they thought they would find me at her place of employment! I have no use for Hittite::>

On 1st. Dec 2009, Art wrote:
I cannot supply the HMC544. Instead, I supply the Digikey equiv chip (AS169-73LF), but it has inverted input lines. Dave's new PCB supports the HMC544 or any of the other industry standard chips (which have the input lines inverted relative to the HMC544). Let me know if you want the AS169-73LF instead.

I got AS157's in my kit.
73 ... Sid.

On 08/12/11 03:42, Hank wrote:
>
> Sid,
>
> Thank you for your post. I am stuck on having no receive after
> installing AS169's. I will make sure to use pins 2/3 on H5 even though
> some of the tests from assembly manual fail. Dave posted that he
> remembered there were some descrepancies on the tests for U2/U7 logic
> and said he was going to re-visit the assembly guide.
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> I have control of the Si570 frequency and can watch it change on my
> scope as I change bands.
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> Everything was working up to the point I installed AS169's so I am not
> sure what is happening. Though I had it figured out but was wrong.
> Back to the test bench tomorrow, wish me luck.
>
> Hank
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Sid
> Boyce <sboyce@...> wrote:
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> > In the early hours yesterday I eventually found the AS169's in the box
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> > With the 2 UHFSDR's all I could find were antistatic bags marked AS157
> > as part of the kits I got, guessing part of Art's stash. I would hazard
> > a guess the AS157 datasheet is wrong and showing pinouts for the AS169
> > instead with the addition of 10K resistors to +5V on pin 5.
> >
> > It would be a good idea to have reference to AS157 removed from the
> > Assembly doc in case later as a result of a problem someone tries using
> > them. I had already replaced the original AS157's with other AS157's.
> > 73 ... Sid.
> >
> >
> > On 01/12/11 04:15, Sid Boyce wrote:
> > >
> > > Still a puzzle.
> > > On 28/11/11 12:44, Sid Boyce wrote:
> > >
> > >> It can be confusing.
> > >> That may indeed be a polarity issue, so here's what I got when using

> > >> the Assembly doc where the 10K's were not mentioned so were not
> included.
> > >> H5 1->2 RX OK, TX not OK.
> > >> H5 2->3 RX not OK, didn't try TX.
> > >>
> > >> Looking at the data sheet truth table again.
> > >> The AS157 --- pin 4 High pin5 --> Pin1 (RX)
> > >> pin 6 High pin5 --> Pin3 (TX)
> > >> That means H5 2 -> 3 should be strapped.
> > >>
> > >> I'll have to recheck those now the 10K's are installed.
> > >> 73 ... Sid.
> > >>
> > > With 10K's installed to AS157's Pin 5 -> +5V. I can see definitely
> 157
> > > marked on both and the datasheet suggests H5 2->3 is required.
> > >
> > > H5 2->3 TX works, RX doesn't - I can see RF on the scope at the
> antenna.
> > > H5 1->2 RX works, TX doesn't.
> > >
> > > With H5 1->2
> > > ---
> > > RX - U2-6 +5V U7-4 +5V
> > > TX - U2-4 +5V U7-6 +5V
> > >
> > > The inputs to the AS157's are toggling between RX and TX. If pin 6 is
> > > at +5V, pin 4 is at 0V and vice versa.
> > > I still haven't found my AS169's, so I may have to wait until the
> > > others on order arrive.
> > > I may have one more try at replacing with new AS157's I have to hand.
> > >
> > > The real puzzle is that H5 1->2 works only for RX and H5 2->3 works
> > > only for TX.
> > > 73 ... Sid.
> > >
> > >>
> > >> On 28/11/11 03:34, MIKE DURKIN wrote:
> > >>
> > >>> im not 100% .... the pins might be the same
> > >>> .. but polarity for no/nc (46) might be deferent ....
> > >>>
> > >>> I had issues with rx tx .... but I eventually got it sorted out ...
> > >>>
> > >>> ---
> > >>> To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> > >>> From: hank@...
> > >>> Date: Mon, 28 Nov 2011 03:21:22 +0000
> > >>> Subject: [UHFSDR] Re: Strangeness with U2/U7
> > >>>

> > >>> Sid,
> > >>>
> > >>> Now I'm a little confused, the instructions show AS157 and AS169
> > >>> using same H5-2 to H5-3 and shows different steps for testing than
> > >>> HMC544. . If the AS169 data sheet shows the AS169 are
> > >>> interchangeable with HMC544 wouldn't you think you would use the
> > >>> same pins on H5? HMC544 uses pins H5-1 to H5-2, and same tests. I
> > >>> plan to use removable jumper on H5 and hopefully will be able to
> > >>> figure this one out. I am stuck as my kit had 11 10K resistors
> and I
> > >>> am one short. I have an order into Digikey for that so I have to
> > >>> wait to test things out.
> > >>>
> > >>> Hank
> > >>>
> > >>> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> <mailto:UHFSDR%40yahoogroups.com>, Sid
> > >>> Boyce <sboyce@> wrote:
> > >>> >
> > >>> > Reading the datasheets, the AS169's are interchangeable with the
> > >>> HMC544,
> > >>> > so you should be OK. The AS157's seem to be the odd ones.
> > >>> > 73 ... Sid.
> > >>> >
> > >>> > On 28/11/11 00:43, Hank wrote:
> > >>> > >
> > >>> > > Sid,
> > >>> > >
> > >>> > > I received my kit from Alan and the package says HMC554 but the
> > >>> actual
> > >>> > > chip is marked with S169 so I am assuming these are the
> AS169. I
> > >>> have
> > >>> > > to look into install instructions but right now I am trying to
> > >>> figure
> > >>> > > out what installing the AS169's require.
> > >>> > >
> > >>> > > Hank
> > >>> > >
> > >>> > > --- In UHFSDR@yahoogroups.com
> <mailto:UHFSDR%40yahoogroups.com> <mailto:UHFSDR%40yahoogroups.com>
> > >>> <mailto:UHFSDR%40yahoogroups.com>, Sid
> > >>> > > Boyce <sboyce@> wrote:
> > >>> > > >
> > >>> > > > Just a heads up on problems if AS157's are used.
> > >>> > > >
> > >>> > > > Alan says he only ships CSH210R but all I can find are
> > >>> AS157's, some I
> > >>> > > > ordered separately and some that definitely came as part of
> > >>> one of the

> > >>> > > > kits, probably the first one of the original kits from
> Art, KY1K.
> > >>> > > >
> > >>> > > > I recently was prompted by Dave that the AS157's need a 10K
> > >>> from +5V to
> > >>> > > > pin5 (per the datasheet), but no board space allows for
> them. The
> > >>> > > > Assembly doc mentions AS157's.
> > >>> > > >
> > >>> > > > I am only able to get RX to work.
> > >>> > > >
> > >>> > > > In TX RF appears on pin5 but nothing on pin3.
> > >>> > > >
> > >>> > > > The 10K's didn't do the trick and I haven't yet found the
> > >>> AS169's to
> > >>> > > > try, but I have some more on order. All I can lay my hands
> on at
> > >>> > > present
> > >>> > > > are the pesky AS157's.
> > >>> > > >
> > >>> > > > I only remembered last night that I haven't seen the 1N5822's
> > >>> > > either, so
> > >>> > > > they must be hiding in the same spot.
> > >>> > > > 73 ... Sid.
> > >>> > > >
> > >>> > > > On 25/07/11 04:45, priddix wrote:
> > >>> > > > >
> > >>> > > > > The packet was marked HMC544 and the instructions say
> jumper
> > >>> H5-1 to
> > >>> > > > > H5-2, but I got no connection through the pins specified
> and it
> > >>> > > looked
> > >>> > > > > like U2 was faulty.
> > >>> > > > >
> > >>> > > > > With AS157's and AS169's on hand I changed both to
> AS157's and
> > >>> > > > > jumpered H5-2 to H5-3, same problem - no RX signals.
> > >>> > > > > As a SWAG I decided to jumper H5-1 and H5-2 and bingo, I'm
> > >>> receiving
> > >>> > > > > off-air signals. Pity I didn't try that before replacing U2
> > >>> and U7.
> > >>> > > > >
> > >>> > > > > On my first UHFSDR from Art going back quite a while,
> they are
> > >>> > > AS157's
> > >>> > > > > and H5-2 to H5-3 has the jumper.
> > >>> > > > >
> > >>> > > > > It's as though the part has undergone a change in recent
> > >>> batches.

> > >>> > > > > Has anyone else encountered this?
> > >>> > > > > 73 ... Sid.
> > >>> > > > >
> > >>> > > > >
> > >>> > > >
> > >>> > > >
> > >>> > > > --
> > >>> > > > Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
> > >>> > > > Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech
> > >>> Support
> > >>> > > > Senior Staff Specialist, Cricket Coach
> > >>> > > > Microsoft Windows Free Zone - Linux used for all Computing
> Tasks
> > >>> > > >
> > >>> > >
> > >>> > >
> > >>> >
> > >>> >
> > >>> > --
> > >>> > Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
> > >>> > Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech
> Support
> > >>> > Senior Staff Specialist, Cricket Coach
> > >>> > Microsoft Windows Free Zone - Linux used for all Computing Tasks
> > >>> >
> > >>>
> > >>>
> > >>
> > >>
> > >> --
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> > >> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
> > >> Senior Staff Specialist, Cricket Coach
> > >> Microsoft Windows Free Zone - Linux used for all Computing Tasks
> > >
> > >
> > > --
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> > > Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
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> >
> >
> > --
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> > Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
> > Senior Staff Specialist, Cricket Coach
> > Microsoft Windows Free Zone - Linux used for all Computing Tasks
> >

>
>

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Senior Staff Specialist, Cricket Coach
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448. Re: Strangeness with U2/U7 - Success!

Yahoo group: UHFSDR
Date: 2011-12-08 05:04:28 UTC
From: Hank
Topic: 254 Message: 448

Sid,

I have the AS169's installed and with H5 in position 2/3, when in receive mode, receive is low and transmit is high which is reversed. This is what I get wiht H5 pin 2/3 jumppered when in receive mode.

U6 pin 1 high, pin 2 high, pin 3 low = RA low
U6 pin 9 high, pin 10 high, pin 8 low = R low
U6 pin 4 low, pin 5 high, pin 6 high = TA high
U6 pin 12 high, pin 13 low, pin 11 high = T high

If I put H5 in position 1/2, when in receive mode, receive is high and transmit is low. This is what I get

U6 pin 1 high, pin 2 low, pin 3 high = RA high
U6 pin 9 low, pin 10 high, pin 8 high = R high
U6 pin 4 high, pin 5 high, pin 6 low = TA low
U6 pin 12 high, pin 13 high, pin 11 low = T low

When pressing TUN in PowerSDR, with H5 in position 1/2, U6 pins 3/8 drop, dropping RA and R while U6 pins 6/11 go high enabling TA and T. I think this is correct.

If I move H5 to position 2/3 and press TUN in PowerSDR, U6 pins 3/8 go high, raising RA and R while U6 pins 6/11 go low disabling TA and T. This is exact opposite of what should happen isn't it?

That is what I am seeing when I test my board with AS169's and can not figure out how it would work with H5 in position 2/3 jumpered.

But then again I don't have a signal being decoded either way, so I am not sure what is really correct.

Hank

449. Re: Strangeness with U2/U7 - Success!

Yahoo group: UHFSDR
Date: 2011-12-08 05:19:52 UTC
From: Hank
Topic: 254 Message: 449

Sid,

Forget this last post, I just realized that the AS169's are probably low enabled inputs so that taking RA/R low would be in effect enabling Receive so having H5 to pins 2/3 would work.

It was your last post where you included Alan's comments about the AS169's being inverted inputs....I cannot supply the HMC544. Instead, I supply the Digikey equiv chip (AS169-73LF), but it has inverted input lines. Dave's new PCB supports the HMC544 or any of the other industry standard chips (which have the input lines inverted relative to the HMC544).

But I didn't catch it until 5 minutes after I had finished my testing and made my last post. Some times its better to just keep quiet and mull things over.

Hank

--- In UHFSDR@yahoogroups.com, "Hank" <hank@...> wrote:
>
> Sid,
>
> I have the AS169's installed and with H5 in position 2/3, when in receive mode, receive is low and transmit is high which is reversed. This is what I get wiht H5 pin 2/3 jumppered when in receive mode.
>
> U6 pin 1 high, pin 2 high, pin 3 low = RA low
> U6 pin 9 high, pin 10 high, pin 8 low = R low
> U6 pin 4 low, pin 5 high, pin 6 high = TA high
> U6 pin 12 high, pin 13 low, pin 11 high = T high
>
> If I put H5 in position 1/2, when in receive mode, receive is high and transmit is low. This is what I get
>
> U6 pin 1 high, pin 2 low, pin 3 high = RA high
> U6 pin 9 low, pin 10 high, pin 8 high = R high
> U6 pin 4 high, pin 5 high, pin 6 low = TA low
> U6 pin 12 high, pin 13 high, pin 11 low = T low
>
> When pressing TUN in PowerSDR, with H5 in position 1/2, U6 pins 3/8 drop, dropping RA and R while U6 pins 6/11 go high enabling TA and T. I think this is correct.
>
> If I move H5 to position 2/3 and press TUN in PowerSDR, U6 pins 3/8 go high, raising RA and R while U6 pins 6/11 go low disabling TA and T. This is exact opposite of what should happen isn't it?
>
> That is what I am seeing when I test my board with AS169's and can not figure out how it

would work with H5 in position 2/3 jumpered.
>
> But then again I don't have a signal being decoded either way, so I am not sure what is really correct.
>
> Hank
>

450. Re: [UHFSDR] Re: Strangeness with U2/U7 - Success!

Yahoo group: UHFSDR
Date: 2011-12-08 05:34:07 UTC
From: Sid Boyce
Topic: 254 Message: 450

Late evenings and worse still in the early hours of the morning you can
get ever so muddled and miss the things that are staring at you.
Let us know how the rest of it goes. It's 05:32 and I'm heading off to
bed for about 7 hours sleep.
73 ... Sid.

On 08/12/11 05:19, Hank wrote:
>
> Sid,
>
> Forget this last post, I just realized that the AS169's are probably
> low enabled inputs so that taking RA/R low would be in effect enabling
> Receive so having H5 to pins 2/3 would work.
>
> It was your last post where you included Alan's comments about the
> AS169's being inverted inputs....I cannot supply the HMC544. Instead,
> I supply the Digikey equiv chip (AS169-73LF), but it has inverted
> input lines. Dave's new PCB supports the HMC544 or any of the other
> industry standard chips (which have the input lines inverted relative
> to the HMC544).
>
> But I didn't catch it until 5 minutes after I had finished my testing
> and made my last post. Some times its better to just keep quiet and
> mull things over.
>
> Hank
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
> "Hank" <hank@...> wrote:
> >
> > Sid,
> >
> > I have the AS169's installed and with H5 in position 2/3, when in
> receive mode, receive is low and transmit is high which is reversed.
> This is what I get wiht H5 pin 2/3 jumppered when in receive mode.
> >
> > U6 pin 1 high, pin 2 high, pin 3 low = RA low
> > U6 pin 9 high, pin 10 high, pin 8 low = R low
> > U6 pin 4 low, pin 5 high, pin 6 high = TA high
> > U6 pin 12 high, pin 13 low, pin 11 high = T high
> >
> > If I put H5 in position 1/2, when in receive mode, receive is high
> and transmit is low. This is what I get
> >
> > U6 pin 1 high, pin 2 low, pin 3 high = RA high

> > U6 pin 9 low, pin 10 high, pin 8 high = R high
> > U6 pin 4 high, pin 5 high, pin 6 low = TA low
> > U6 pin 12 high, pin 13 high, pin 11 low = T low
> >
> > When pressing TUN in PowerSDR, with H5 in position 1/2, U6 pins 3/8
> drop, dropping RA and R while U6 pins 6/11 go high enabling TA and T.
> I think this is correct.
> >
> > If I move H5 to position 2/3 and press TUN in PowerSDR, U6 pins 3/8
> go high, raising RA and R while U6 pins 6/11 go low disabling TA and
> T. This is exact opposite of what should happen isn't it?
> >
> > That is what I am seeing when I test my board with AS169's and can
> not figure out how it would work with H5 in position 2/3 jumpered.
> >
> > But then again I don't have a signal being decoded either way, so I
> am not sure what is really correct.
> >
> > Hank
> >
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
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451. Got receive back but only left channel out of SPKR J1

Yahoo group: UHFSDR
Date: 2011-12-09 05:06:44 UTC
From: Hank
Topic: 451 Message: 451

Dave,

Was able to finally get receive working again, and am using H5 in positions 2/3 for AS169's.

I used my scope and followed all signals and found U8 pin 9 bad solder joint and same with R42. I love my Tektronix, would be lost without it.

Issue I am seeing now is that Receive I/Q going into U8 pins 4/5 fine but out on pin 14 seems off. Output on pin 11 and 5 seem fine. Not sure what to check or just replace U8 all together.

Any suggestions?

73,
Hank
WZ3HMT

452. Re: [UHFSDR] Got receive back but only left channel out of SPKR J1

Yahoo group: UHFSDR
Date: 2011-12-09 14:32:42 UTC
From: Sid Boyce
Topic: 451 Message: 452

On RX H2-pin 1 should be grounded to set U8 pin 1 Low.
The I_Aud and Q_Aud come in on pins 4 and 7 of U8 and ouput to pins 2
and 5 to the MMBT4401's emitters, then on to U10.

If you are using IQGEN.exe you should be able to trace the signals
through U10A and U10B to Line_IN_R and Line_IN_L.
Hope that helps.
73 ... Sid.

On 09/12/11 05:06, Hank wrote:
>
> Dave,
>
> Was able to finally get receive working again, and am using H5 in
> positions 2/3 for AS169's.
>
> I used my scope and followed all signals and found U8 pin 9 bad solder
> joint and same with R42. I love my Tektronix, would be lost without it.
>
> Issue I am seeing now is that Receive I/Q going into U8 pins 4/5 fine
> but out on pin 14 seems off. Output on pin 11 and 5 seem fine. Not
> sure what to check or just replace U8 all together.
>
> Any suggestions?
>
> 73,
> Hank
> WZ3HMT
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
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453. Re: Got receive back but only left channel out of SPKR J1

Yahoo group: UHFSDR
Date: 2011-12-09 18:17:10 UTC
From: Hank
Topic: 451 Message: 453

Sid,

Thanks, will check this evening when home from work but I am a little confused on H2 pin 1 to ground on RX. I though H2 pins 1/2 were tied together for a High OE Si570 all the time. Dosen't the Si570 still need to be enabled during RX for demodulation?

Hank

--- In UHFSDR@yahoogroups.com, Sid Boyce <sboyce@...> wrote:
>
> On RX H2-pin 1 should be grounded to set U8 pin 1 Low.
> The I_Aud and Q_Aud come in on pins 4 and 7 of U8 and ouput to pins 2
> and 5 to the MMBT4401's emitters, then on to U10.
>
> If you are using IQGEN.exe you should be able to trace the signals
> through U10A and U10B to Line_IN_R and Line_IN_L.
> Hope that helps.
> 73 ... Sid.
>
> On 09/12/11 05:06, Hank wrote:
> >
> > Dave,
> >
> > Was able to finally get receive working again, and am using H5 in
> > positions 2/3 for AS169's.
> >
> > I used my scope and followed all signals and found U8 pin 9 bad solder
> > joint and same with R42. I love my Tektronix, would be lost without it.
> >
> > Issue I am seeing now is that Receive I/Q going into U8 pins 4/5 fine
> > but out on pin 14 seems off. Output on pin 11 and 5 seem fine. Not
> > sure what to check or just replace U8 all together.
> >
> > Any suggestions?
> >
> > 73,
> > Hank
> > WZ3HMT
> >
> >
>
>
> --
> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
> Senior Staff Specialist, Cricket Coach

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>

454. Re: [UHFSDR] Re: Got receive back but only left channel out of SPKR J1

Yahoo group: UHFSDR
Date: 2011-12-09 20:32:46 UTC
From: Dave
Topic: 451 Message: 454

Hank and Sid:
That should be P2, not H2.

Dave - WB6DHW
<http://wb6dhw.com>

On 12/9/2011 10:17 AM, Hank wrote:
>
> Sid,
>
> Thanks, will check this evening when home from work but I am a little
> confused on H2 pin 1 to ground on RX. I though H2 pins 1/2 were tied
> together for a High OE Si570 all the time. Dosen't the Si570 still
> need to be enabled during RX for demodulation?
>
> Hank
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Sid
> Boyce <sboyce@...> wrote:
> >
> > On RX H2-pin 1 should be grounded to set U8 pin 1 Low.
> > The I_Aud and Q_Aud come in on pins 4 and 7 of U8 and ouput to pins 2
> > and 5 to the MMBT4401's emitters, then on to U10.
> >
> > If you are using IQGEN.exe you should be able to trace the signals
> > through U10A and U10B to Line_IN_R and Line_IN_L.
> > Hope that helps.
> > 73 ... Sid.
> >
> > On 09/12/11 05:06, Hank wrote:
> > >
> > > Dave,
> > >
> > > Was able to finally get receive working again, and am using H5 in
> > > positions 2/3 for AS169's.
> > >
> > > I used my scope and followed all signals and found U8 pin 9 bad
> solder
> > > joint and same with R42. I love my Tektronix, would be lost
> without it.
> > >
> > > Issue I am seeing now is that Receive I/Q going into U8 pins 4/5 fine
> > > but out on pin 14 seems off. Output on pin 11 and 5 seem fine. Not
> > > sure what to check or just replace U8 all together.
> > >

> > > Any suggestions?
> > >
> > > 73,
> > > Hank
> > > WZ3HMT
> > >
> > >
> >
> >
> > --
> > Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
> > Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
> > Senior Staff Specialist, Cricket Coach
> > Microsoft Windows Free Zone - Linux used for all Computing Tasks
> >
>
>
>

455. Re: Got receive back but only left channel out of SPKR J1

Yahoo group: UHFSDR
Date: 2011-12-09 20:50:04 UTC
From: Hank
Topic: 451 Message: 455

Dave,

Thanks, was going to ask that if it was P2. I am using Pin 8 on LPT port to toggle P2 from Low to Hi Rx/Tx. Is that not sufficient to ground U8 pin 1?

Hank

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> Hank and Sid:
> That should be P2, not H2.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 12/9/2011 10:17 AM, Hank wrote:
> >
> > Sid,
> >
> > Thanks, will check this evening when home from work but I am a little
> > confused on H2 pin 1 to ground on RX. I though H2 pins 1/2 were tied
> > together for a High OE Si570 all the time. Dosen't the Si570 still
> > need to be enabled during RX for demodulation?
> >
> > Hank
> >
> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Sid
> > Boyce <sboyce@> wrote:
> > >
> > > On RX H2-pin 1 should be grounded to set U8 pin 1 Low.
> > > The I_Aud and Q_Aud come in on pins 4 and 7 of U8 and ouput to pins 2
> > > and 5 to the MMBT4401's emitters, then on to U10.
> > >
> > > If you are using IQGEN.exe you should be able to trace the signals
> > > through U10A and U10B to Line_IN_R and Line_IN_L.
> > > Hope that helps.
> > > 73 ... Sid.
> > >
> > > On 09/12/11 05:06, Hank wrote:
> > > >
> > > > Dave,
> > > >
> > > > Was able to finally get receive working again, and am using H5 in
> > > > positions 2/3 for AS169's.
> > > >
> > > > I used my scope and followed all signals and found U8 pin 9 bad

> > solder
> > > > joint and same with R42. I love my Tektronix, would be lost
> > without it.
> > > >
> > > > Issue I am seeing now is that Receive I/Q going into U8 pins 4/5 fine
> > > > but out on pin 14 seems off. Output on pin 11 and 5 seem fine. Not
> > > > sure what to check or just replace U8 all together.
> > > >
> > > > Any suggestions?
> > > >
> > > > 73,
> > > > Hank
> > > > WZ3HMT
> > > >
> > > >
> > >
> > >
> > > --
> > > Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
> > > Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
> > > Senior Staff Specialist, Cricket Coach
> > > Microsoft Windows Free Zone - Linux used for all Computing Tasks
> > >
> >
> >
> >
>

456. Re: Got receive back but only left channel out of SPKR J1

Yahoo group: UHFSDR
Date: 2011-12-09 20:51:54 UTC
From: Hank
Topic: 451 Message: 456

Using Pin 8 on LPT port does toggle U2/U7 correctly so I would assume it is workin for U8 pin 1 also.

Hank

--- In UHFSDR@yahoogroups.com, "Hank" <hank@...> wrote:
>
> Dave,
>
> Thanks, was going to ask that if it was P2. I am using Pin 8 on LPT port to toggle P2 from Low to Hi Rx/Tx. Is that not sufficient to ground U8 pin 1?
>
> Hank
>
> --- In UHFSDR@yahoogroups.com, Dave <dave@> wrote:
> >
> > Hank and Sid:
> > That should be P2, not H2.
> >
> > Dave - WB6DHW
> > <http://wb6dhw.com>
> >
> > On 12/9/2011 10:17 AM, Hank wrote:
> > >
> > > Sid,
> > >
> > > Thanks, will check this evening when home from work but I am a little
> > > confused on H2 pin 1 to ground on RX. I though H2 pins 1/2 were tied
> > > together for a High OE Si570 all the time. Dosen't the Si570 still
> > > need to be enabled during RX for demodulation?
> > >
> > > Hank
> > >
> > > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Sid
> > > Boyce <sboyce@> wrote:
> > > >
> > > > On RX H2-pin 1 should be grounded to set U8 pin 1 Low.
> > > > The I_Aud and Q_Aud come in on pins 4 and 7 of U8 and ouput to pins 2
> > > > and 5 to the MMBT4401's emitters, then on to U10.
> > > >
> > > > If you are using IQGEN.exe you should be able to trace the signals
> > > > through U10A and U10B to Line_IN_R and Line_IN_L.
> > > > Hope that helps.
> > > > 73 ... Sid.
> > > >

> > > > On 09/12/11 05:06, Hank wrote:
> > > > >
> > > > > Dave,
> > > > >
> > > > > Was able to finally get receive working again, and am using H5 in
> > > > > positions 2/3 for AS169's.
> > > > >
> > > > > I used my scope and followed all signals and found U8 pin 9 bad
> > > solder
> > > > > joint and same with R42. I love my Tektronix, would be lost
> > > without it.
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> > > > > Issue I am seeing now is that Receive I/Q going into U8 pins 4/5 fine
> > > > > but out on pin 14 seems off. Output on pin 11 and 5 seem fine. Not
> > > > > sure what to check or just replace U8 all together.
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> > > > > Any suggestions?
> > > > >
> > > > > 73,
> > > > > Hank
> > > > > WZ3HMT
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> > > > Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
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457. Re: [UHFSDR] Re: Got receive back but only left channel out of SPKR J1

Yahoo group: UHFSDR
Date: 2011-12-10 03:52:46 UTC
From: Sid Boyce
Topic: 451 Message: 457

Thanks Dave, a touch of digititus.
73 ... Sid.

On 09/12/11 20:32, Dave wrote:
>
> Hank and Sid:
> That should be P2, not H2.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 12/9/2011 10:17 AM, Hank wrote:
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>> Sid,
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>> Thanks, will check this evening when home from work but I am a little
>> confused on H2 pin 1 to ground on RX. I though H2 pins 1/2 were tied
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>> Hank
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>> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Sid
>> Boyce <sboyce@...> wrote:
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>> > On RX H2-pin 1 should be grounded to set U8 pin 1 Low.
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458. Re: Got receive back but only left channel out of SPKR J1

Yahoo group: UHFSDR
Date: 2011-12-10 22:21:30 UTC
From: Hank
Topic: 451 Message: 458

Dave, Sid,

Thank you for your help, I am listening to the CQ Contest on 20M using the UHFSDR. On to build the BPF and figure out how to hook to my 50W amp. Then the real fun begins.

73,
Hank
WZ3HMT

--- In UHFSDR@yahoogroups.com, Sid Boyce <sboyce@...> wrote:
>
> Thanks Dave, a touch of digititus.
> 73 ... Sid.
>
> On 09/12/11 20:32, Dave wrote:
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> > Hank and Sid:
> > That should be P2, not H2.
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> > <http://wb6dhw.com>
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> >> > On RX H2-pin 1 should be grounded to set U8 pin 1 Low.
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> >> > > Issue I am seeing now is that Receive I/Q going into U8 pins 4/5
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459. RE: [UHFSDR] Re: Got receive back but only left channel out of SPKR J1

Yahoo group: UHFSDR
Date: 2011-12-10 23:58:49 UTC
From: MIKE DURKIN
Topic: 451 Message: 459

which amp do you have?

The UHFSDR2GO only has 50mW drive ... I use a modified kitsandparts 10w amp .... it puts out 20w up to 17m them drops to 10W on 10m.(need to figure out why still)

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: hank@...
Date: Sat, 10 Dec 2011 22:21:30 +0000
Subject: [UHFSDR] Re: Got receive back but only left channel out of SPKR J1

Dave, Sid,

Thank you for your help, I am listening to the CQ Contest on 20M using the UHFSDR. On to build the BPF and figure out how to hook to my 50W amp. Then the real fun begins.

73,

Hank

WZ3HMT

--- In UHFSDR@yahoogroups.com, Sid Boyce <sboyce@...> wrote:

>

> Thanks Dave, a touch of digititus.

> 73 ... Sid.

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> On 09/12/11 20:32, Dave wrote:

> >

> > Hank and Sid:

> > That should be P2, not H2.

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> > Dave - WB6DHW

> > <http://wb6dhw.com>

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> >> Thanks, will check this evening when home from work but I am a little

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> >> need to be enabled during RX for demodulation?

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> >> Hank

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> >> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Sid

> >> Boyce <sboyce@> wrote:

> >> >

> >> > On RX H2-pin 1 should be grounded to set U8 pin 1 Low.

> >> > The I_Aud and Q_Aud come in on pins 4 and 7 of U8 and ouput to pins 2

> >> > and 5 to the MMBT4401's emitters, then on to U10.

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> >> > through U10A and U10B to Line_IN_R and Line_IN_L.

> >> > Hope that helps.

> >> > 73 ... Sid.

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> >> > On 09/12/11 05:06, Hank wrote:

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> >> > > Dave,

> >> > >

> >> > > Was able to finally get receive working again, and am using H5 in

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> >> > > I used my scope and followed all signals and found U8 pin 9 bad

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> >> > > Hank

> >> > > WZ3HMT

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460. Re: Got receive back but only left channel out of SPKR J1

Yahoo group: UHFSDR
Date: 2011-12-11 01:05:29 UTC
From: Hank
Topic: 451 Message: 460

Mike,

I have two amps that I am going to work with. The first is with my Genesis G59, the GPA10. It is a 10W amp that takes 50mW input. I know the UHFSDR puts out close to 100mW so I am not sure if it will handle it. I also have Jim Veatch 50W amp from ARRL that I built and use on by Genesis from 10 to 160 meters. It works pretty good and I have been sucessfull on a complete homebrew Genesis G59 with this amp with phone QSO's to Japan and Serbia. Not many but it worked. I got 125 contacts with it on my first ARRL Sweeps this past November. I just finished the amp earlier this year.

73,
Hank
WZ3HMT

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
> which amp do you have?
>
> The UHFSDR2GO only has 50mW drive ... I use a modified kitsandparts 10w amp .... it puts out 20w up to 17m them drops to 10W on 10m.(need to figure out why still)
>
> Mike KC7NOA
>
> To: UHFSDR@yahoogroups.com
> From: hank@...
> Date: Sat, 10 Dec 2011 22:21:30 +0000
> Subject: [UHFSDR] Re: Got receive back but only left channel out of SPKR J1
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> --- In UHFSDR@yahoogroups.com, Sid Boyce <sboyce@> wrote:
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> > Thanks Dave, a touch of digititus.
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> > On 09/12/11 20:32, Dave wrote:
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>
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>
> > > <http://wb6dhw.com>
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> > > On 12/9/2011 10:17 AM, Hank wrote:
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> > >> > On RX H2-pin 1 should be grounded to set U8 pin 1 Low.
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461. Re: [UHFSDR] Re: Got receive back but only left channel out of SPKR J1

Yahoo group: UHFSDR
Date: 2011-12-11 01:15:58 UTC
From: Sid Boyce
Topic: 451 Message: 461
Attachments: 1 described; binary payloads are missing from this source WARC

I didn't take a measurement but Dave reckons >100mW.

I'm just trying to figure out PA relay switching for my 15W.

I'll build up another of Alex's T/R Relay Driver for it using PTT_2.
Wondering if a level shifter is needed or if PTT_2 can be wired in directly.
73 ... Sid.

On 10/12/11 23:58, MIKE DURKIN wrote:
>
> which amp do you have?
>
> The UHFSDR2GO only has 50mW drive ... I use a modified
> kitsandparts 10w amp .... it puts out 20w up to 17m them drops to 10W
> on 10m.(need to figure out why still)
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> Mike KC7NOA
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> To: UHFSDR@yahoogroups.com
> From: hank@...
> Date: Sat, 10 Dec 2011 22:21:30 +0000
> Subject: [UHFSDR] Re: Got receive back but only left channel out of
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462. Re: [UHFSDR] Re: Got receive back but only left channel out of SPKR J1

Yahoo group: UHFSDR
Date: 2011-12-11 01:23:00 UTC
From: Sid Boyce
Topic: 451 Message: 462

Excellent Hank,
I'll have to put an attenuator between the UHFSDR and the 15W PA. Once that is working, try the AN762 - 100+W which has LPF's used with a now defunct 200W PA.
Finally the EB104 at 3W in 300W out which is recommended by CCI for the LPF's in the EB104.
73 ... Sid.

On 11/12/11 01:05, Hank wrote:
>
> Mike,
>
> I have two amps that I am going to work with. The first is with my
> Genesis G59, the GPA10. It is a 10W amp that takes 50mW input. I know
> the UHFSDR puts out close to 100mW so I am not sure if it will handle
> it. I also have Jim Veatch 50W amp from ARRL that I built and use on
> by Genesis from 10 to 160 meters. It works pretty good and I have been
> sucessfull on a complete homebrew Genesis G59 with this amp with phone
> QSO's to Japan and Serbia. Not many but it worked. I got 125 contacts
> with it on my first ARRL Sweeps this past November. I just finished
> the amp earlier this year.
>
> 73,
> Hank
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> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, MIKE
> DURKIN <Patriot121@...> wrote:
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> > which amp do you have?
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> > The UHFSDR2GO only has 50mW drive ... I use a modified kitsandparts
> 10w amp .... it puts out 20w up to 17m them drops to 10W on 10m.(need
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> > Mike KC7NOA
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> > To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> > From: hank@...
> > Date: Sat, 10 Dec 2011 22:21:30 +0000
> > Subject: [UHFSDR] Re: Got receive back but only left channel out of
> SPKR J1
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463. Re: Got receive back but only left channel out of SPKR J1

Yahoo group: UHFSDR
Date: 2011-12-11 02:28:45 UTC
From: Hank
Topic: 451 Message: 463

Sid,

Yes, I have Dave's BPF and MPLPF boards. I am ordering parts tonight for the BPF board and plan to build that over Christmas vacation. Probably should order parts for MPLPF's too. I was going to try to put the BPF board in line with the Genesis GPA10 amp and use the LPF's from the GPA10 along with the BPF from Dave. That should be interesting. I have to custom interface the band switching between the UHFSDR, the BPF, and the GPA10!

I was also thinking about trying to control the LOSC on the UHFSDR with an Arduino board using i2c and Arduino's WIRE library. Looks not too difficult. Also put a LCD on the Arduino and a rotary encoder to select the frequency just for fun to see where that might take me.

I really want to order either the SDRWIDGET or the USB2SDR but funds are low as I ordered a new mic (Audio Technica 2035) and a Alesis MIC Preamp w/Phantom Power. That is my Christmas present from the XYL. I am really looking forward to getting rid of my home built Radio Shack electret mic.

So it's just the parts to populate the BPF board for now and wait a while longer for my next project.

I am really happy I built the UHFSDR. It is definately a different approach than the Genesis. It is amazingly small compared the Genesis G59 for the same/more band coverage. One nice thing about the Genesis is the BPF for 6 to 160M are built into the radio. I wanted the UHFSDR to get into 2M and above. Genesis is now ceased sales of the G59 because the new kit the G11 is almost ready. It will be all SMD but not a kit. Mostly pre-assembled so I think I am going to pass on that one. If it was a kit like the UHFSDR I would scoop it up in a snap. Oh well, money still in my pocket.

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> > it. I also have Jim Veatch 50W amp from ARRL that I built and use on
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464. Re: [UHFSDR] Re: Got receive back but only left channel out of SPKR J1

Yahoo group: UHFSDR
Date: 2011-12-11 02:57:50 UTC
From: Sid Boyce
Topic: 451 Message: 464

Hank,
I use the Widget with the UHFSDR. I think George may have just one kit left.
Ben Bibb (NO5K) on the AQRP group is using his UHFSDR/SDR2GO on 2m when
last I heard and that was may be over a year ago.

When I got home this evening I found my SR63ng/Mobo/Widget shut down
with a 70+ degree temp. A fault caused the PTT to come on permanently.
After it cooled down the temp is more normal ~27C but the PTT is still
permanently on.

I decided to try my UHFSDR/Widget with ghpsdr3 not long ago and it's
working. I thought I'd give it a try on the local network before putting
it on the internet tomorrow.
One problem I have to look at, since I replaced the AS157's with AS169's
the noise floor is ~-80dBm so I must have upset something unrelated.
73 ... Sid.

On 11/12/11 02:28, Hank wrote:
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> > > > > >> > > Issue I am seeing now is that Receive I/Q going into U8
> > > pins 4/5
> > > >
> > > > > >> fine
> > > >
> > > > > >> > > but out on pin 14 seems off. Output on pin 11 and 5 seem
> > > fine. Not
> > > >
> > > > > >> > > sure what to check or just replace U8 all together.
> > > >
> > > > > >> > >
> > > >
> > > > > >> > > Any suggestions?
> > > >
> > > > > >> > >
> > > >
> > > > > >> > > 73,
> > > >
> > > > > >> > > Hank
> > > >
> > > > > >> > > WZ3HMT
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> > > > > >> > --
> > > >
> > > > > >> > Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
> > > >
> > > > > >> > Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech
> > > Support
> > > >
> > > > > >> > Senior Staff Specialist, Cricket Coach

> > > >
> > > > > >> > Microsoft Windows Free Zone - Linux used for all
> Computing Tasks
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> > > >
> > > > > Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
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--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

465. UHFSDR & MOBOKITS Tranciever package

Yahoo group: UHFSDR
Date: 2011-12-11 23:48:02 UTC
From: stacywilliams6908
Topic: 465 Message: 465

Hiya all

Firstly, I'm new to this group so please don't bite;)

Please would some one be kind enough to point me in the direction so that, I can build UHFSDR with MOBOKITS MOBO 4.3?

Are there any other boards/kits that I might need for a full build?

Regards & 73
M0WSA
Stacy Williams

466. RE: [UHFSDR] UHFSDR & MOBOKITS Tranciever package

Yahoo group: UHFSDR
Date: 2011-12-12 00:09:33 UTC
From: MIKE DURKIN
Topic: 465 Message: 466

frankly ... im not sure what's involved with a MOBOKIT , I use a UHFSDR2GO -- UHFSDR and a SDR2GO in a radio that had bandpass and lowpass filters already.

To: UHFSDR@yahoogroups.com
From: slateblue69@...
Date: Sun, 11 Dec 2011 23:48:02 +0000
Subject: [UHFSDR] UHFSDR & MOBOKITS Tranciever package

Hiya all

Firstly, I'm new to this group so please don't bite;)

Please would some one be kind enough to point me in the direction so that, I can build UHFSDR with MOBOKITS MOBO 4.3?

Are there any other boards/kits that I might need for a full build?

Regards & 73

M0WSA

Stacy Williams

467. Re: UHFSDR & MOBOKITS Tranciever package

Yahoo group: UHFSDR
Date: 2011-12-12 00:23:10 UTC
From: stacywilliams6908
Topic: 465 Message: 467

Hiya Mike

Funnily, Iv noticed BPF for the HF 1 to 30 MHz on the MOBOKITS and on WB6DHW sites, I would prefer the MOBOKITS BPF.

With regards to the LPF, this I have not seen but, they are not terribly difficult to make! At least in some cases.

I have see the SDR2GO site too

Stacy, m0wsa

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
> frankly ... im not sure what's involved with a MOBOKIT , I use a UHFSDR2GO -- UHFSDR and a SDR2GO in a radio that had bandpass and lowpass filters already.
>
> To: UHFSDR@yahoogroups.com
> From: slateblue69@...
> Date: Sun, 11 Dec 2011 23:48:02 +0000
> Subject: [UHFSDR] UHFSDR & MOBOKITS Tranciever package
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>
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>
> Hiya all

>
>
>
> Firstly, I'm new to this group so please don't bite;)
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>
>
> Please would some one be kind enough to point me in the direction so that, I can build UHFSDR with MOBOKITS MOBO 4.3?
>
>
>
> Are there any other boards/kits that I might need for a full build?
>
>
>
> Regards & 73
>
> M0WSA
>
> Stacy Williams
>

468. Re: [UHFSDR] UHFSDR & MOBOKITS Tranciever package

Yahoo group: UHFSDR
Date: 2011-12-12 01:52:33 UTC
From: Sid Boyce
Topic: 465 Message: 468

Larry (w9amr) posted some notes in early June to this list.
It's worth checking the archives.
73 ... Sid.

On 12/12/11 00:09, MIKE DURKIN wrote:
>
> frankly ... im not sure what's involved with a MOBOKIT , I use a
> UHFSDR2GO -- UHFSDR and a SDR2GO in a radio that had bandpass and
> lowpass filters already.
>
> ---
> To: UHFSDR@yahoogroups.com
> From: slateblue69@...
> Date: Sun, 11 Dec 2011 23:48:02 +0000
> Subject: [UHFSDR] UHFSDR & MOBOKITS Tranciever package
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>
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>
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> Regards & 73
> M0WSA
> Stacy Williams
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>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

469. Re: [UHFSDR] UHFSDR & MOBOKITS Tranciever package

Yahoo group: UHFSDR
Date: 2011-12-12 02:07:48 UTC
From: Sid Boyce
Topic: 465 Message: 469

I hope to get back to the UHFSDR2GO soon. I built the SDR2GO and picked
my way through the configuration but stopped at the point of connecting
it to the UHFSDR, mainly through confusion about what some of the
displays were trying to tell me.
I hoped someone who had one working would produce a setup document like
the one I did for the Si570 Controller but got no takers.
Mike, I'd like some help when I get back to it if you would be so kind.
They would be short questions.

I have not so far modded the UHFSDR as described in Ben's notes.
73 ... Sid.

On 12/12/11 00:09, MIKE DURKIN wrote:
>
> frankly ... im not sure what's involved with a MOBOKIT , I use a
> UHFSDR2GO -- UHFSDR and a SDR2GO in a radio that had bandpass and
> lowpass filters already.
>
> ---
> To: UHFSDR@yahoogroups.com
> From: slateblue69@...
> Date: Sun, 11 Dec 2011 23:48:02 +0000
> Subject: [UHFSDR] UHFSDR & MOBOKITS Tranciever package
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> Hiya all
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>
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> that, I can build UHFSDR with MOBOKITS MOBO 4.3?
>
> Are there any other boards/kits that I might need for a full build?
>
> Regards & 73
> M0WSA
> Stacy Williams
>
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

470. 70cm with Grade SI570 Grade B works

Yahoo group: UHFSDR
Date: 2011-12-14 21:18:13 UTC
From: Oliver Goldenstein
Topic: 470 Message: 470

Hi All !

Just want to let you know that i was a bit dissapointed when i noticed
that i orderdered a Grade B SI570 10-810 Mhz and later that there are
no SI570 Grade A to order anywhere.

Today i copied the local Digipeater at 438.300 MHZ loud and clear
whith a 2-Meter Turnstyle Antenna connected. No filter att all yet.
Was able to decode nearly every data Package monitored on the Channel.

With CFGSR.EXE i set maximum to 880 MHZ / 2 = 440 MHZ and that works.

Have fun, i have more and more with that nice little rig :-)

--
Oliver, DL6KBG, JO61UB
Blog: http://dl6kbg.blogspot.com

471. RE: [UHFSDR] 70cm with Grade SI570 Grade B works

Yahoo group: UHFSDR
Date: 2011-12-14 23:14:43 UTC
From: The Silver Fox
Topic: 470 Message: 471

I am all out of SI570's for the UHFSDR kits. I would like to order another round but at the moment I am short on cash flow for this expensive investment. If there are folks out there that would like to pre-order some of the Si570's that I use in the kits or UHFSDR kits themselves, please paypal me at my email address. I need about ten to fifteen pre-orders of the Si570s to complete the purchase. The Si570's are 570AAA000514G which will cost $66 USD US and $68 DX. This price is contingent on the vendor honoring their quote and for pre-orders only.

73's

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Oliver Goldenstein
Sent: Wednesday, December 14, 2011 1:18 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] 70cm with Grade SI570 Grade B works

Hi All !

Just want to let you know that i was a bit dissapointed when i noticed that i orderdered a Grade B SI570 10-810 Mhz and later that there are no SI570 Grade A to order anywhere.

Today i copied the local Digipeater at 438.300 MHZ loud and clear whith a 2-Meter Turnstyle Antenna connected. No filter att all yet. Was able to decode nearly every data Package monitored on the Channel.

With CFGSR.EXE i set maximum to 880 MHZ / 2 = 440 MHZ and that works.

Have fun, i have more and more with that nice little rig :-)

--
Oliver, DL6KBG, JO61UB
Blog: http://dl6kbg.blogspot.com

472. Atom D525

Yahoo group: UHFSDR
Date: 2011-12-15 10:58:09 UTC
From: brainerdd
Topic: 472 Message: 472

Has anyone used the Atom D525 with PowerSDR-IQ? Newegg has a mini-ITX board with the D525 for $85. A 2 GByte RAM stick is $12.99.
Would be interesting to put the UHFSDR and filters in a 5-1/4 inch drive slot in one of the mini-itx desktop cases for a self-contained system at a reasonable price.

Dave - WB6DHW
<http://wb6dhw.com>

473. Re: Atom D525

Yahoo group: UHFSDR
Date: 2011-12-15 11:15:50 UTC
From: Stephen Farthing
Topic: 472 Message: 473

Dave,

It is an interesting proposition. If the RAM you are referring to is in a USB stick you need to be careful. Some USB ram sticks have a maximum life of 100,000 read writes. This sounds a lot but in reality if the operating system is doing a lot of memory read writes it can soon be used up....

Let us know how you get on....

73s Steve G0XAR

--
It is vain to do with more that which can be done with less.....William of Occam

NATO has deployed the ultimate weapon against the Taliban....Elmo and Sesamie Street!

474. Re: [UHFSDR] Atom D525

Yahoo group: UHFSDR
Date: 2011-12-15 15:51:16 UTC
From: Dominic Baines
Topic: 472 Message: 474

Dave,

Got a HP mini 110 3617sa which has an Atom N550 dual core (close) you want me to try PowerSDR-IQ?

I would use with external usb Sound blaster 24 bit card.

Dom
M1KTA

>_____
> From: brainerdd <dave@...>
>To: UHFSDR@yahoogroups.com
>Sent: Thursday, 15 December 2011, 10:58
>Subject: [UHFSDR] Atom D525
>
>
>
>Has anyone used the Atom D525 with PowerSDR-IQ? Newegg has a mini-ITX board with the D525 for $85. A 2 GByte RAM stick is $12.99.
>Would be interesting to put the UHFSDR and filters in a 5-1/4 inch drive slot in one of the mini-itx desktop cases for a self-contained system at a reasonable price.
>
>Dave - WB6DHW
><http://wb6dhw.com>
>
>
>
>
>

475. Re: [UHFSDR] 70cm with Grade SI570 Grade B works

Yahoo group: UHFSDR
Date: 2011-12-15 15:59:36 UTC
From: Stacy Williams
Topic: 470 Message: 475

Hi Alan

I want to purchase a grade A chip, will I be able to buy such a device from you? And a UHFSDR kit too?

Regards & 73
M0WSA
Stacy Williams

On Thursday, 15 December 2011, The Silver Fox <alan.r.hill@...> wrote:
>
>
> I am all out of SI570's for the UHFSDR kits. I would like to order another round but at the moment I am short on cash flow for this expensive investment. If there are folks out there that would like to pre-order some of the Si570's that I use in the kits or UHFSDR kits themselves, please paypal me at my email address. I need about ten to fifteen pre-orders of the Si570s to complete the purchase. The Si570's are 570AAA000514G which will cost $66 USD US and $68 DX. This price is contingent on the vendor honoring their quote and for pre-orders only.
>
> 73's
>
> Alan – W6ARH
>
>
>
>
>
> From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Oliver Goldenstein
> Sent: Wednesday, December 14, 2011 1:18 PM
> To: UHFSDR@yahoogroups.com
> Subject: [UHFSDR] 70cm with Grade SI570 Grade B works
>
>
>
>
>
> Hi All !
>
> Just want to let you know that i was a bit dissapointed when i noticed
> that i orderdered a Grade B SI570 10-810 Mhz and later that there are
> no SI570 Grade A to order anywhere.
>
> Today i copied the local Digipeater at 438.300 MHZ loud and clear

> whith a 2-Meter Turnstyle Antenna connected. No filter att all yet.
> Was able to decode nearly every data Package monitored on the Channel.
>
> With CFGSR.EXE i set maximum to 880 MHZ / 2 = 440 MHZ and that works.
>
> Have fun, i have more and more with that nice little rig :-)
>
> --
> Oliver, DL6KBG, JO61UB
> Blog: http://dl6kbg.blogspot.com
>
>

476. RE: [UHFSDR] 70cm with Grade SI570 Grade B works

Yahoo group: UHFSDR
Date: 2011-12-15 16:40:18 UTC
From: MIKE DURKIN
Topic: 470 Message: 476

My christmas wish is to see Si570BCA for lower price ...

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: slateblue69@...
Date: Thu, 15 Dec 2011 15:59:36 +0000
Subject: Re: [UHFSDR] 70cm with Grade SI570 Grade B works

Hi Alan

I want to purchase a grade A chip, will I be able to buy such a device from you? And a UHFSDR kit too?

Regards & 73
M0WSA
Stacy Williams

On Thursday, 15 December 2011, The Silver Fox <alan.r.hill@...> wrote:

>
>
> I am all out of SI570's for the UHFSDR kits. I would like to order another round but at the moment I am short on cash flow for this expensive investment. If there are folks out there that would like to pre-order some of the Si570's that I use in the kits or UHFSDR kits themselves, please paypal me at my email address. I need about ten to fifteen pre-orders of the Si570s to complete the purchase. The Si570's are 570AAA000514G which will cost $66 USD US and $68 DX. This price is contingent on the vendor honoring their quote and for pre-orders only.

>
> 73's
>
> Alan – W6ARH
>
>
>
>
>
> From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Oliver Goldenstein

> Sent: Wednesday, December 14, 2011 1:18 PM
> To: UHFSDR@yahoogroups.com
> Subject: [UHFSDR] 70cm with Grade SI570 Grade B works
>
>

>
>

>
> Hi All !
>
> Just want to let you know that i was a bit dissapointed when i noticed
> that i orderdered a Grade B SI570 10-810 Mhz and later that there are
> no SI570 Grade A to order anywhere.

>
> Today i copied the local Digipeater at 438.300 MHZ loud and clear
> whith a 2-Meter Turnstyle Antenna connected. No filter att all yet.
> Was able to decode nearly every data Package monitored on the Channel.

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> With CFGSR.EXE i set maximum to 880 MHZ / 2 = 440 MHZ and that works.
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> Have fun, i have more and more with that nice little rig :-)
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> --
> Oliver, DL6KBG, JO61UB
> Blog: http://dl6kbg.blogspot.com

>
>

477. Re: [UHFSDR] Re: Atom D525

Yahoo group: UHFSDR
Date: 2011-12-15 21:47:39 UTC
From: Dave
Topic: 472 Message: 477

Stephen:
The RAM I was referring to is DDR3 in a 204 pin package(Laptop RAM).
The board holds 2 sticks. It also has 7 USB 2.0 and 2 SATA plus
2-Serial ports, a parallel port and KBD and mouse ports plus video and
sound on board on a 6.75" square board.

Dave - WB6DHW
<http://wb6dhw.com>

On 12/15/2011 3:15 AM, Stephen Farthing wrote:
>
> Dave,
>
> It is an interesting proposition. If the RAM you are referring to is
> in a USB stick you need to be careful. Some USB ram sticks have a
> maximum life of 100,000 read writes. This sounds a lot but in reality
> if the operating system is doing a lot of memory read writes it can
> soon be used up....
>
> Let us know how you get on....
>
> 73s Steve G0XAR
>
> --
> It is vain to do with more that which can be done with
> less.....William of Occam
>
> NATO has deployed the ultimate weapon against the Taliban....Elmo and
> Sesamie Street!
>
>
> Reply to sender
> <mailto:squirrox@...?subject=Re%3A%20Atom%20D525> | Reply to
> group <mailto:UHFSDR@yahoogroups.com?subject=Re%3A%20Atom%20D525> |
> Reply via web post
> <http://groups.yahoo.com/group/UHFSDR/post;_ylc=X3oDMTJwdjFmM3VpBF9TAzk3MzU5NzE0BGdycElk
AzcyODUzODU3BGdycHNwSWQDMTcwNTA2MzEwOARtc2dJZAM0NzMEc2VjA2Z0cgRzbGsDcnBseQRzdGltZQMxMzIzOT
Q3NzY4?act=reply&messageNum=473>
> | Start a New Topic
> <http://groups.yahoo.com/group/UHFSDR/post;_ylc=X3oDMTJmb2FvdjExBF9TAzk3MzU5NzE0BGdycElk
AzcyODUzODU3BGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNudHBjBHN0aW1lAzEzMjM5NDc3Njg->
>
> Messages in this topic
> <http://groups.yahoo.com/group/UHFSDR/message/472;_ylc=X3oDMTMzb3BoazZsBF9TAzk3MzU5NzE0B
GdycElkAzcyODUzODU3BGdycHNwSWQDMTcwNTA2MzEwOARtc2dJZAM0NzMEc2VjA2Z0cgRzbGsDdnRwYwRzdGltZQM

xMzIzOTQ3NzY4BHRwY0lkAzQ3Mg-->
> (2)
> Recent Activity:
>
> * New Members
> <http://groups.yahoo.com/group/UHFSDR/members;_ylc=X3oDMTJnbDZxZDY1BF9TAzk3MzU5NzE0BGdyc
ElkAzcyODUzODU3BGdycHNwSWQDMTcwNTA2MzEwOARzZWMDdnRsBHNsawN2bWJycwRzdGltZQMxMzIzOTQ3NzY4?o=
6>
> 7
>
> Visit Your Group
> <http://groups.yahoo.com/group/UHFSDR;_ylc=X3oDMTJmMjRtMnZoBF9TAzk3MzU5NzE0BGdycElkAzcyO
DUzODU3BGdycHNwSWQDMTcwNTA2MzEwOARzZWMDdnRsBHNsawN2Z2hwBHN0aW1lAzEzMjM5NDc3Njg->
>
>

478. Re: [UHFSDR] Atom D525

Yahoo group: UHFSDR
Date: 2011-12-15 22:25:25 UTC
From: Dave
Topic: 472 Message: 478

Dom:
Would be interesting. If you are using another SDR program, that
would be interesting as well to see how well that works.

Dave - WB6DHW
<http://wb6dhw.com>

On 12/15/2011 7:51 AM, Dominic Baines wrote:
> Dave,
>
> Got a HP mini 110 3617sa which has an Atom N550 dual core (close) you
> want me to try PowerSDR-IQ?
>
> I would use with external usb Sound blaster 24 bit card.
>
> Dom
> M1KTA
>
> ---
> *From:* brainerdd <dave@...>
> *To:* UHFSDR@yahoogroups.com
> *Sent:* Thursday, 15 December 2011, 10:58
> *Subject:* [UHFSDR] Atom D525
>
> Has anyone used the Atom D525 with PowerSDR-IQ? Newegg has a
> mini-ITX board with the D525 for $85. A 2 GByte RAM stick is $12.99.
> Would be interesting to put the UHFSDR and filters in a 5-1/4 inch
> drive slot in one of the mini-itx desktop cases for a
> self-contained system at a reasonable price.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
>
>
>
>

479. RE: [UHFSDR] Atom D525

Yahoo group: UHFSDR
Date: 2011-12-15 23:34:56 UTC
From: MIKE DURKIN
Topic: 472 Message: 479

Did you see one cheap some where?

To: UHFSDR@yahoogroups.com
From: dave@wb6dhw.com
Date: Thu, 15 Dec 2011 14:25:25 -0800
Subject: Re: [UHFSDR] Atom D525

Dom:

Would be interesting. If you are using another SDR program, that
would be interesting as well to see how well that works.

Dave - WB6DHW

<http://wb6dhw.com>

On 12/15/2011 7:51 AM, Dominic Baines wrote:

Dave,

Got
a HP mini 110 3617sa which has an Atom N550 dual
core (close) you want me to try PowerSDR-IQ?

I would use with external usb Sound
blaster 24 bit card.

Dom
M1KTA

From:
brainerdd <dave@...>

To:
UHFSDR@yahoogroups.com

Sent:
Thursday, 15 December 2011, 10:58

Subject:
[UHFSDR] Atom D525

Has anyone used the Atom D525 with
PowerSDR-IQ? Newegg has a mini-ITX
board with the D525 for $85. A 2
GByte RAM stick is $12.99.

Would be interesting to put the
UHFSDR and filters in a 5-1/4 inch

drive slot in one of the mini-itx
desktop cases for a self-contained
system at a reasonable price.

Dave - WB6DHW

<http://wb6dhw.com>

480. Re: [UHFSDR] Atom D525

Yahoo group: UHFSDR
Date: 2011-12-16 01:07:23 UTC
From: Sid Boyce
Topic: 472 Message: 480

I have a Atom N330 based Zotac Mag Mini PC with 2 Gig and a 160G HD. It runs the UHFSDR using Kubuntu 11.10 Linux and running quisk which is a heavy CPU user as it's written largely in python.
73 ... Sid.

On 15/12/11 22:25, Dave wrote:
>
> Dom:
> ? Would be interesting.? If you are using another SDR program, that
> would be interesting as well to see how well that works.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 12/15/2011 7:51 AM, Dominic Baines wrote:
>
>> ?
>> Dave,
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>> Got a HP mini 110 3617sa which has an Atom N550 dual core (close) you
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>>
>> I would ? use with external usb? Sound blaster? 24 bit card.
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>> Dom
>> M1KTA
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>> ---
>> *From:* brainerdd <dave@...>
>> *To:* UHFSDR@yahoogroups.com
>> *Sent:* Thursday, 15 December 2011, 10:58
>> *Subject:* [UHFSDR] Atom D525
>>
>> ?
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>> mini-ITX board with the D525 for $85. A 2 GByte RAM stick is $12.99.
>> Would be interesting to put the UHFSDR and filters in a 5-1/4
>> inch drive slot in one of the mini-itx desktop cases for a
>> self-contained system at a reasonable price.
>>
>> Dave - WB6DHW
>> <http://wb6dhw.com>
>>
>>
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>>
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>

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Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

481. Re: [UHFSDR] Atom D525

Yahoo group: UHFSDR
Date: 2011-12-16 01:12:19 UTC
From: Dave
Topic: 472 Message: 481

Mike:
About $85 at Newegg.com.

Dave- WB6DHW
<http://wb6dhw.com>

On 12/15/2011 3:34 PM, MIKE DURKIN wrote:
>
> Did you see one cheap some where?
>
> ---
> To: UHFSDR@yahoogroups.com
> From: dave@...
> Date: Thu, 15 Dec 2011 14:25:25 -0800
> Subject: Re: [UHFSDR] Atom D525
>
> Dom:
> Would be interesting. If you are using another SDR program, that
> would be interesting as well to see how well that works.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 12/15/2011 7:51 AM, Dominic Baines wrote:
>
> Dave,
>
> Got a HP mini 110 3617sa which has an Atom N550 dual core (close)
> you want me to try PowerSDR-IQ?
>
> I would use with external usb Sound blaster 24 bit card.
>
> Dom
> M1KTA
>
> ---
> *From:* brainerdd <dave@...> <mailto:dave@...>
> *To:* UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> *Sent:* Thursday, 15 December 2011, 10:58
> *Subject:* [UHFSDR] Atom D525
>
> Has anyone used the Atom D525 with PowerSDR-IQ? Newegg has a
> mini-ITX board with the D525 for $85. A 2 GByte RAM stick is
> $12.99.
> Would be interesting to put the UHFSDR and filters in a 5-1/4

> inch drive slot in one of the mini-itx desktop cases for a
> self-contained system at a reasonable price.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
>
>
>
>
>
>

482. Re: [UHFSDR] Atom D525

Yahoo group: UHFSDR
Date: Unknown date
From: Glen Overby
Topic: 472 Message: 482

"brainerdd" <dave@...> wrote:
> Has anyone used the Atom D525 with PowerSDR-IQ? Newegg has a mini-ITX board with the D525 for $85. A 2 GByte RAM stick is $12.99.

In a discussion on the dttsp-linux list at the beginning of this year, one of the developers of the DTTSP signal processing core for PowerSDR, Frank Brickle, AB2KT, said that the development of that code was done on a 500mhz Pentium II with no GUI and it had adequate processing power.

I don't know how processor efficient the PowerSDR GUI is. The GUI I use on linux, sdr-shell, don't use much processor power.

I've looked at building a mini-ITX system with one of the D525 processors. I was going to use a Delta-44 card in it so I've tried finding a good case that has a slot for a PCI card but isn't too large. A case could cost as much as the motherboard.

For portable use, I found a DC-DC converter called the picoPSU-90 by mini-itx.com. I don't know how much RF all this will generate.

Glen, kc0iyt

483. Re: [UHFSDR] Re: Atom D525

Yahoo group: UHFSDR
Date: 2011-12-16 07:38:54 UTC
From: Stephen Farthing
Topic: 472 Message: 483

Dave,

Thanks OK then.....looks a very promising device.

73s Steve

--
It is vain to do with more that which can be done with less.....William of Occam

NATO has deployed the ultimate weapon against the Taliban....Elmo and
Sesamie Street!

484. New file uploaded to UHFSDR

Yahoo group: UHFSDR
Date: 2011-12-21 04:37:43 UTC
From: UHFSDR@yahoogroups.com
Topic: 2 Message: 484

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the UHFSDR
group.

File : /KC4YOE UHFSDR+USB2SDR/KC4YOE_UHFSDR-USB2SDR.pdf
Uploaded by : kc4yoe <eric_haskell@...>
Description : North Texas Microwave Society Presentation

You can access this file at the URL:
http://groups.yahoo.com/group/UHFSDR/files/KC4YOE%20UHFSDR%2BUSB2SDR/KC4YOE_UHFSDR-USB2SDR
.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

kc4yoe <eric_haskell@...>

485. Complete BPFs for HF and UHF/VHF

Yahoo group: UHFSDR
Date: 2011-12-21 04:59:55 UTC
From: alex_egoshin
Topic: 485 Message: 485

Hello!
Somebody did filters for uhfsdr at once both on HF and on VHF on one board? Also I'm very interesting in wideband PA on HF and on VHF ranges.

486. Re: [UHFSDR] Complete BPFs for HF and UHF/VHF

Yahoo group: UHFSDR
Date: 2011-12-21 08:23:38 UTC
From: Oliver Goldenstein
Topic: 485 Message: 486

Hi Alex!

I plan to Build modules from 6 Meter to 70 cm. Maybe later switchable. For designs google for YU1LM (Tasa).

I will beginn to make them next?

73 dsw Oliver DL6KBG

Von meinem iPhone gesendet

Am 21.12.2011 um 05:59 schrieb "alex_egoshin" <alex.egoshin@...>:

> Hello!
> Somebody did filters for uhfsdr at once both on HF and on VHF on one board? Also I'm very interesting in wideband PA on HF and on VHF ranges.
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

487. Re: Complete BPFs for HF and UHF/VHF

Yahoo group: UHFSDR
Date: 2011-12-23 07:57:01 UTC
From: sv1eia
Topic: 485 Message: 487

Hi Alex, Oliver,
:-)

There are two very good design resources for filters,
at first, its Elsie, distributed with the 2012 ARRL Handbook
-> http://tonnesoftware.com/elsie.html

and there is AADE, an also very good filter design application which is free
-> http://www.aade.com/filter32/download.htm

For switching the filters, you can use an RF relay or some pin diodes, you can get ideas from this very nice site
-> http://www.qsl.net/va3iul/Homebrew_RF_Circuit_Design_Ideas/PIN_RF_Switch_types.gif

73,
Christos SV1EIA

--- In UHFSDR@yahoogroups.com, Oliver Goldenstein <oliver.goldenstein@...> wrote:
>
> Hi Alex!
>
> I plan to Build modules from 6 Meter to 70 cm. Maybe later switchable. For designs google for YU1LM (Tasa).
>
> I will beginn to make them next?
>
> 73 dsw Oliver DL6KBG
>
> Von meinem iPhone gesendet
>
> Am 21.12.2011 um 05:59 schrieb "alex_egoshin" <alex.egoshin@...>:
>
> > Hello!
> > Somebody did filters for uhfsdr at once both on HF and on VHF on one board? Also I'm very interesting in wideband PA on HF and on VHF ranges.
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
>

488. DIY Isolated USB Cable

Yahoo group: UHFSDR
Date: 2011-12-23 10:15:38 UTC
From: Stephen Farthing
Topic: 488 Message: 488

Guys,

FYI
http://www.designspark.com/content/you-can-build-your-own-isolated-usb-cable

PS Design Spark is an on-line community sponsored by Radiospares one of the biggest European parts suppliers. If you join it you can get loads of free tools, including a FB PCB design package.

Hope this helps someone and that you all find some quality time to melt solder over the festive season...

73s Steve G0XAR

--
It is vain to do with more that which can be done with less.....William of Occam

Wisdom demands a new orientation of science and technology towards the organic, the gentle, the non-violent, the elegant and beautiful. E. F. Schumacher

489. Re: [UHFSDR] DIY Isolated USB Cable

Yahoo group: UHFSDR
Date: 2011-12-23 13:41:56 UTC
From: Sid Boyce
Topic: 488 Message: 489

I bought 2 USB isolators from Hong Kong some time ago but found the
Softrock would not enumerate through them.
I didn't put a scope on them to find out what the problem was, something
to check one day.

The circuit in this URL is blurred whatever viewer used so nothing can
be read.
73 ... Sid.

On 23/12/11 10:15, Stephen Farthing wrote:
>
> Guys,
>
>
> FYI
> http://www.designspark.com/content/you-can-build-your-own-isolated-usb-cable
>
> PS Design Spark is an on-line community sponsored by Radiospares one
> of the biggest European parts suppliers. If you join it you can get
> loads of free tools, including a FB PCB design package.
>
> Hope this helps someone and that you all find some quality time to
> melt solder over the festive season...
>
> 73s Steve G0XAR
>
> --
> It is vain to do with more that which can be done with
> less.....William of Occam
>
> Wisdom demands a new orientation of science and technology towards the
> organic, the gentle, the non-violent, the elegant and beautiful. E. F.
> Schumacher
>
>

--
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Senior Staff Specialist, Cricket Coach
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490. Re: [UHFSDR] DIY Isolated USB Cable

Yahoo group: UHFSDR
Date: 2011-12-23 15:04:02 UTC
From: Sid Boyce
Topic: 488 Message: 490

It must have been finger trouble, the USB isolators are fine.
73 ... Sid.

On 23/12/11 13:41, Sid Boyce wrote:
>
> I bought 2 USB isolators from Hong Kong some time ago but found the
> Softrock would not enumerate through them.
> I didn't put a scope on them to find out what the problem was,
> something to check one day.
>
> The circuit in this URL is blurred whatever viewer used so nothing can
> be read.
> 73 ... Sid.
>
> On 23/12/11 10:15, Stephen Farthing wrote:
>
>> Guys,
>>
>>
>> FYI
>> http://www.designspark.com/content/you-can-build-your-own-isolated-usb-cable
>>
>> PS Design Spark is an on-line community sponsored by Radiospares one
>> of the biggest European parts suppliers. If you join it you can get
>> loads of free tools, including a FB PCB design package.
>>
>> Hope this helps someone and that you all find some quality time to
>> melt solder over the festive season...
>>
>> 73s Steve G0XAR
>>
>> --
>> It is vain to do with more that which can be done with
>> less.....William of Occam
>>
>> Wisdom demands a new orientation of science and technology towards
>> the organic, the gentle, the non-violent, the elegant and beautiful.
>> E. F. Schumacher
>>
>
>
> --
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491. Announcement, USB2SDR new stock is available.

Yahoo group: UHFSDR
Date: 2011-12-24 19:37:58 UTC
From: sv1eia
Topic: 491 Message: 491

Hi,

A new factory run of the USB2SDR has just been delivered and now there is available stock.

-> http://groups.yahoo.com/group/powersdr-iq/message/2162

If you are interested please let me know via email to
sv1eia <at> gmail.com

Best wishes for Merry Christmas and a Happy New Year,

Christos SV1EIA

USB2SDR Information
-> http://www.wb5rvz.com/usb2sdr/index.htm

492. Newbie info

Yahoo group: UHFSDR
Date: 2011-12-24 23:07:14 UTC
From: Jim Sanford
Topic: 492 Message: 492

All:
New to this list.
Contemplating UHFSDR as IF for my microwave transverters. A couple of basic questions:
1. What version(S) are people using with UHFSDR?
2. What experiences are people having using USB-paralell to control the UHFSDR? (The laptop I'll use has no parallel port....)

Thanks, very 73, and Happy Holidays to all!
Jim
wb4gcs@...

493. Re: [UHFSDR] Newbie info

Yahoo group: UHFSDR
Date: 2011-12-24 23:44:53 UTC
From: Sid Boyce
Topic: 492 Message: 493

2. I got a USB-Parallel cable but have never used it.

There are other options such as the UBW (Universal Bitwhacker) which
only needs a USB cable. It's a small board to assemble and needs only to
be flashed with firmware over USB.
http://groups.yahoo.com/group/softrock40/files/9V1AL/UBW%20Emulator/UBW-x2.hex

If you are using Dave's board then you can give it a try.

http://www.sparkfun.com/products/762 for UBW at $24.95.
73 ... Sid.

On 24/12/11 23:07, Jim Sanford wrote:
>
> All:
> New to this list.
> Contemplating UHFSDR as IF for my microwave transverters. A couple of
> basic questions:
> 1. What version(S) are people using with UHFSDR?
> 2. What experiences are people having using USB-paralell to
> control the UHFSDR? (The laptop I'll use has no parallel port....)
>
> Thanks, very 73, and Happy Holidays to all!
> Jim
> wb4gcs@... <mailto:wb4gcs%40amsat.org>
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
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Senior Staff Specialist, Cricket Coach
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494. RE: [UHFSDR] Newbie info

Yahoo group: UHFSDR
Date: 2011-12-24 23:47:36 UTC
From: MIKE DURKIN
Topic: 492 Message: 494

I use a UHFSDR2GO (UHFSDR & SDR2GO)

With a Si570BBA, my 100mhz scope can see something to 500mhz... (fuzzes the trace with modulation)

So 1.8mhz to 440'ish isn't bad.... I can't tell about image rejection that high, I don't have a BPF for 2m or 440 yet hooked up..

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: wb4gcs@...
Date: Sat, 24 Dec 2011 18:07:14 -0500
Subject: [UHFSDR] Newbie info

All:

New to this list.

Contemplating UHFSDR as IF for my microwave transverters. A couple of

basic questions:

1. What version(S) are people using with UHFSDR?

2. What experiences are people having using USB-paralell to

control the UHFSDR? (The laptop I'll use has no parallel port....)

Thanks, very 73, and Happy Holidays to all!

Jim

wb4gcs@amsat.org

495. Re: [UHFSDR] Newbie info

Yahoo group: UHFSDR
Date: 2011-12-25 01:37:55 UTC
From: Sid Boyce
Topic: 492 Message: 495

I am preparing a 15W PA for the UHFSDR/SDR-Widget and minutes ago
finished building and checking the RX/TX switching for it.
At Some stage I'll get back to the SDR2GO setup (which is quite
involved) and connection to the other UHFSDR.

Mike, I think I mentioned before that I'll probably be asking you to
explain a few setup details I found confusing when I first went through it.

I think I completed the setup to just before connecting it to the
UHFSDR. I'll let you know when I tackle it again.

When completed, the firmware upgrade should be no problem as I have the
BDM programmer already connected to a PC.
73 ... Sid.

On 24/12/11 23:47, MIKE DURKIN wrote:
>
> I use a UHFSDR2GO (UHFSDR & SDR2GO)
>
> With a Si570BBA, my 100mhz scope can see something to 500mhz...
> (fuzzes the trace with modulation)
>
> So 1.8mhz to 440'ish isn't bad.... I can't tell about image rejection
> that high, I don't have a BPF for 2m or 440 yet hooked up..
>
> Mike KC7NOA
>
>
> ---
> To: UHFSDR@yahoogroups.com
> From: wb4gcs@...
> Date: Sat, 24 Dec 2011 18:07:14 -0500
> Subject: [UHFSDR] Newbie info
>
> All:
> New to this list.
> Contemplating UHFSDR as IF for my microwave transverters. A couple of
> basic questions:
> 1. What version(S) are people using with UHFSDR?
> 2. What experiences are people having using USB-paralell to
> control the UHFSDR? (The laptop I'll use has no parallel port....)
>
> Thanks, very 73, and Happy Holidays to all!
> Jim
> wb4gcs@... <mailto:wb4gcs%40amsat.org>
>

>
>

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496. RE: [UHFSDR] Newbie info

Yahoo group: UHFSDR
Date: 2011-12-25 01:40:37 UTC
From: MIKE DURKIN
Topic: 492 Message: 496

Did you see my picture of the bottom of the UHFSDR? alternate route for that one coax...

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: sboyce@blueyonder.co.uk
Date: Sun, 25 Dec 2011 01:37:55 +0000
Subject: Re: [UHFSDR] Newbie info

I am preparing a 15W PA for the UHFSDR/SDR-Widget and minutes ago
finished building and checking the RX/TX switching for it.

At Some stage I'll get back to the SDR2GO setup (which is quite
involved) and connection to the other UHFSDR.

Mike, I think I mentioned before that I'll probably be asking you to
explain a few setup details I found confusing when I first went
through it.

I think I completed the setup to just before connecting it to the
UHFSDR. I'll let you know when I tackle it again.

When completed, the firmware upgrade should be no problem as I have
the BDM programmer already connected to a PC.

73 ... Sid.

On 24/12/11 23:47, MIKE DURKIN wrote:

I use a UHFSDR2GO (UHFSDR & SDR2GO)

With a Si570BBA, my 100mhz scope can see something to
500mhz... (fuzzes the trace with modulation)

So 1.8mhz to 440'ish isn't bad.... I can't tell about
image rejection that high, I don't have a BPF for 2m or
440 yet hooked up..

Mike KC7NOA

To: UHFSDR@yahoogroups.com

From: wb4gcs@...

Date: Sat, 24 Dec 2011 18:07:14 -0500

Subject: [UHFSDR] Newbie info

All:

New to this list.

Contemplating UHFSDR as IF for my microwave
transverters. A couple of

basic questions:

1. What version(S) are people using with UHFSDR?

2. What experiences are people having using
USB-paralell to

control the UHFSDR? (The laptop I'll use has no
parallel port....)

Thanks, very 73, and Happy Holidays to all!

Jim

wb4gcs@...

--
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Senior Staff Specialist, Cricket Coach
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497. Re: Newbie info

Yahoo group: UHFSDR
Date: 2011-12-25 03:00:41 UTC
From: Hank
Topic: 492 Message: 497

Jim,

On the parallel port, I was able to get it working with pin outs in the document LPT connections.pdf inside the UHFSDR Documentation folder on this forum. The small diagram plus the Si570.exe did not work for me. Also I was able to only get working on Windows 7 32bit. Windows 7 64bit I have not had any luck.

I am also runing PowerSDR-IQ V1.12.20. In the newer version 1.19.xxx I did not see the LPT port option.

I am leaning to buying the USB2SDR interface board but at 195 euros (240+ USD) I am hesitating although I am sure it's worth it.

There is also the SDRWidget which looks really interesting but as of now only supports 48Khz in Windows due to driver limitations, but at about $160US it is much more reasonable but not as capable as the USB2SDR..:(

I am also considering the Bitwacker or maybe putting together some code for an Arduino board. Either look fun but I am not sure how either will work with PowerSDR-IQ. My initial though would be not very well but I am not sure on that.

On the microwave I have no luck but I did have my UHFSDR running on 2 meters.

I have the parts for the BPF board Dave sells sitting next to me here on my radio bench. Starting that maybe Monday but it will be for 160-10M.

Good luck and Merry Christmas,

Hank
WZ3HMT

--- In UHFSDR@yahoogroups.com, Jim Sanford <wb4gcs@...> wrote:
>
> All:
> New to this list.
> Contemplating UHFSDR as IF for my microwave transverters. A couple of
> basic questions:
> 1. What version(S) are people using with UHFSDR?
> 2. What experiences are people having using USB-paralell to
> control the UHFSDR? (The laptop I'll use has no parallel port....)
>
> Thanks, very 73, and Happy Holidays to all!
> Jim
> wb4gcs@...
>

498. Re: [UHFSDR] Newbie info

Yahoo group: UHFSDR
Date: 2011-12-25 05:29:03 UTC
From: Sid Boyce
Topic: 492 Message: 498

I posted one picture, I think it originally came from NO5K - I recently noticed it in his photos.
Before that I read a post that underneath was a better place to install the coax jumper, so that's the way I did it with the first kit from Art and the second one from Alan.
It certainly keeps it neatly out of the way of other components.

What were the real obstacles from Feb. 2010 until about 2 weeks ago were those DOA si570 samples - I had the first one fail after about a month and the other 2 were DOA - one I got from G1CET. Then those darn AS157's that I got with both kits. I know Alan got a stock of parts from Art on the handover, so that's how I got them with both kits - I found the original bags labelled AS157.

Strap H5 1-2 and RX worked but not TX, H5 2-3 TX worked but not RX. I replaced them with other AS157's and got the same symptoms.
I changed the FST switch, and the MMBT4401's, still the same. Latterly Dave said the AS157's needed 10K pull-ups on pin 5 (per the datasheet), no space on the board for them - no problem, but even with the 10K's wired in they still didn't work right.

Finally I replaced them with AS169's and everything works a treat.
73 ... Sid.

On 25/12/11 01:40, MIKE DURKIN wrote:
>
> Did you see my picture of the bottom of the UHFSDR? alternate route
> for that one coax...
>
> Mike KC7NOA
>
> ---
> To: UHFSDR@yahoogroups.com
> From: sboyce@...
> Date: Sun, 25 Dec 2011 01:37:55 +0000
> Subject: Re: [UHFSDR] Newbie info
>
> I am preparing a 15W PA for the UHFSDR/SDR-Widget and minutes ago
> finished building and checking the RX/TX switching for it.
> At Some stage I'll get back to the SDR2GO setup (which is quite
> involved) and connection to the other UHFSDR.
>
> Mike, I think I mentioned before that I'll probably be asking you to
> explain a few setup details I found confusing when I first went
> through it.
>

> I think I completed the setup to just before connecting it to the
> UHFSDR. I'll let you know when I tackle it again.
>
> When completed, the firmware upgrade should be no problem as I have
> the BDM programmer already connected to a PC.
> 73 ... Sid.
>
> On 24/12/11 23:47, MIKE DURKIN wrote:
>
>
> I use a UHFSDR2GO (UHFSDR & SDR2GO)
>
> With a Si570BBA, my 100mhz scope can see something to 500mhz...
> (fuzzes the trace with modulation)
>
> So 1.8mhz to 440'ish isn't bad.... I can't tell about image
> rejection that high, I don't have a BPF for 2m or 440 yet hooked up..
>
> Mike KC7NOA
>
>
> ---
> To: UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> From: wb4gcs@... <mailto:wb4gcs@...>
> Date: Sat, 24 Dec 2011 18:07:14 -0500
> Subject: [UHFSDR] Newbie info
>
> All:
> New to this list.
> Contemplating UHFSDR as IF for my microwave transverters. A couple of
> basic questions:
> 1. What version(S) are people using with UHFSDR?
> 2. What experiences are people having using USB-paralell to
> control the UHFSDR? (The laptop I'll use has no parallel port....)
>
> Thanks, very 73, and Happy Holidays to all!
> Jim
> wb4gcs@... <mailto:wb4gcs%40amsat.org>
>
>
>
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> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
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Senior Staff Specialist, Cricket Coach
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499. Re: [UHFSDR] Re: Newbie info

Yahoo group: UHFSDR
Date: 2011-12-25 05:40:58 UTC
From: Sid Boyce
Topic: 492 Message: 499

The UBW works fine, that's how I ran mine before I got the SDR-Widget, it worked fine with my first SDR the SR v6.3 and Mobo v3.6.
The initial problem seen on the UHFSDR was with the UBW.hex (x4 multiplier) file which Alex corrected with the UBW-2.hex file. It emulates the DG8SAQ firmware, so is good with any Softrock program.
Simple, quick and easy to build and flash.
Merry Xmas to all.
73 ... Sid.

On 25/12/11 03:00, Hank wrote:
>
> Jim,
>
> On the parallel port, I was able to get it working with pin outs in
> the document LPT connections.pdf inside the UHFSDR Documentation
> folder on this forum. The small diagram plus the Si570.exe did not
> work for me. Also I was able to only get working on Windows 7 32bit.
> Windows 7 64bit I have not had any luck.
>
> I am also runing PowerSDR-IQ V1.12.20. In the newer version 1.19.xxx I
> did not see the LPT port option.
>
> I am leaning to buying the USB2SDR interface board but at 195 euros
> (240+ USD) I am hesitating although I am sure it's worth it.
>
> There is also the SDRWidget which looks really interesting but as of
> now only supports 48Khz in Windows due to driver limitations, but at
> about $160US it is much more reasonable but not as capable as the
> USB2SDR..:(
>
> I am also considering the Bitwacker or maybe putting together some
> code for an Arduino board. Either look fun but I am not sure how
> either will work with PowerSDR-IQ. My initial though would be not very
> well but I am not sure on that.
>
> On the microwave I have no luck but I did have my UHFSDR running on 2
> meters.
>
> I have the parts for the BPF board Dave sells sitting next to me here
> on my radio bench. Starting that maybe Monday but it will be for 160-10M.
>
> Good luck and Merry Christmas,
>
> Hank
> WZ3HMT

>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Jim
> Sanford <wb4gcs@...> wrote:
> >
> > All:
> > New to this list.
> > Contemplating UHFSDR as IF for my microwave transverters. A couple of
> > basic questions:
> > 1. What version(S) are people using with UHFSDR?
> > 2. What experiences are people having using USB-paralell to
> > control the UHFSDR? (The laptop I'll use has no parallel port....)
> >
> > Thanks, very 73, and Happy Holidays to all!
> > Jim
> > wb4gcs@...
> >
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
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500. RE: [UHFSDR] Newbie info

Yahoo group: UHFSDR
Date: 2011-12-25 06:09:11 UTC
From: MIKE DURKIN
Topic: 492 Message: 500

Ok, it's the christmas season and im tired .... the sdr2go was actually straightforward ...., then I killed the pic and dsp with an accidentall rake across 12v with the encoder .... I still get a weird poping noise during Rx, tx seems fine ..... probably the sample dsp still, probably should buy a retail one ...

All rehash, the setup was easy.

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: sboyce@...
Date: Sun, 25 Dec 2011 05:29:03 +0000
Subject: Re: [UHFSDR] Newbie info

I posted one picture, I think it originally came from NO5K - I recently noticed it in his photos.

Before that I read a post that underneath was a better place to install the coax jumper, so that's the way I did it with the first kit from Art and the second one from Alan.

It certainly keeps it neatly out of the way of other components.

What were the real obstacles from Feb. 2010 until about 2 weeks ago were those DOA si570 samples - I had the first one fail after about a month and the other 2 were DOA - one I got from G1CET. Then those darn AS157's that I got with both kits. I know Alan got a stock of parts from Art on the handover, so that's how I got them with both kits - I found the original bags labelled AS157.

Strap H5 1-2 and RX worked but not TX, H5 2-3 TX worked but not RX. I replaced them with other AS157's and got the same symptoms.

I changed the FST switch, and the MMBT4401's, still the same. Latterly Dave said the AS157's needed 10K pull-ups on pin 5 (per the datasheet), no space on the board for them - no problem, but even with the 10K's wired in they still didn't work right.

Finally I replaced them with AS169's and everything works a treat.

73 ... Sid.

On 25/12/11 01:40, MIKE DURKIN wrote:

Did you see my picture of the bottom of the UHFSDR? alternate route for that one coax...

Mike KC7NOA

To: UHFSDR@yahoogroups.com

From: sboyce@...

Date: Sun, 25 Dec 2011 01:37:55 +0000

Subject: Re: [UHFSDR] Newbie info

I am preparing a 15W PA for
the UHFSDR/SDR-Widget and minutes ago finished
building and checking the RX/TX switching for it.

At Some stage I'll get back to the SDR2GO setup
(which is quite involved) and connection to the
other UHFSDR.

Mike, I think I mentioned before that I'll probably
be asking you to explain a few setup details I found
confusing when I first went through it.

I think I completed the setup to just before
connecting it to the UHFSDR. I'll let you know when
I tackle it again.

When completed, the firmware upgrade should be no
problem as I have the BDM programmer already
connected to a PC.

73 ... Sid.

On 24/12/11 23:47, MIKE DURKIN wrote:

I use a UHFSDR2GO (UHFSDR &
SDR2GO)

With a Si570BBA, my 100mhz scope can see
something to 500mhz... (fuzzes the trace with
modulation)

So 1.8mhz to 440'ish isn't bad.... I can't
tell about image rejection that high, I don't
have a BPF for 2m or 440 yet hooked up..

Mike KC7NOA

To: UHFSDR@yahoogroups.com

From: wb4gcs@...

Date: Sat, 24 Dec 2011 18:07:14 -0500

Subject: [UHFSDR] Newbie info

All:

New to this list.

Contemplating UHFSDR as IF for my
microwave transverters. A couple of

basic questions:

1. What version(S) are people using with
UHFSDR?

2. What experiences are people having
using USB-paralell to

control the UHFSDR? (The laptop I'll use
has no parallel port....)

Thanks, very 73, and Happy Holidays to
all!

Jim

wb4gcs@...

--
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501. Re: [UHFSDR] Newbie info

Yahoo group: UHFSDR
Date: 2011-12-25 12:00:40 UTC
From: Sid Boyce
Topic: 492 Message: 501

AOK, I'll have a second go through the setup and see.
73 ... Sid.

On 25/12/11 06:09, MIKE DURKIN wrote:
>
> Ok, it's the christmas season and im tired .... the sdr2go was
> actually straightforward ...., then I killed the pic and dsp with an
> accidentall rake across 12v with the encoder .... I still get a weird
> poping noise during Rx, tx seems fine ..... probably the sample dsp
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> All rehash, the setup was easy.
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> To: UHFSDR@yahoogroups.com
> From: sboyce@...
> Date: Sun, 25 Dec 2011 05:29:03 +0000
> Subject: Re: [UHFSDR] Newbie info
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> I posted one picture, I think it originally came from NO5K - I
> recently noticed it in his photos.
> Before that I read a post that underneath was a better place to
> install the coax jumper, so that's the way I did it with the first
> kit from Art and the second one from Alan.
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> were those DOA si570 samples - I had the first one fail after about a
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> AS157's that I got with both kits. I know Alan got a stock of parts
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> replaced them with other AS157's and got the same symptoms.
> I changed the FST switch, and the MMBT4401's, still the same. Latterly
> Dave said the AS157's needed 10K pull-ups on pin 5 (per the
> datasheet), no space on the board for them - no problem, but even with
> the 10K's wired in they still didn't work right.
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> Finally I replaced them with AS169's and everything works a treat.
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> To: UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> From: sboyce@... <mailto:sboyce@...>
> Date: Sun, 25 Dec 2011 01:37:55 +0000
> Subject: Re: [UHFSDR] Newbie info
>
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> finished building and checking the RX/TX switching for it.
> At Some stage I'll get back to the SDR2GO setup (which is quite
> involved) and connection to the other UHFSDR.
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> through it.
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> I think I completed the setup to just before connecting it to the
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> When completed, the firmware upgrade should be no problem as I
> have the BDM programmer already connected to a PC.
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> With a Si570BBA, my 100mhz scope can see something to
> 500mhz... (fuzzes the trace with modulation)
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> So 1.8mhz to 440'ish isn't bad.... I can't tell about image
> rejection that high, I don't have a BPF for 2m or 440 yet
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> Subject: [UHFSDR] Newbie info
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> New to this list.
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> control the UHFSDR? (The laptop I'll use has no parallel port....)
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> wb4gcs@... <mailto:wb4gcs%40amsat.org>
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502. Re: [UHFSDR] Re: Strangeness with U2/U7 - Success!

Yahoo group: UHFSDR
Date: 2011-12-26 13:39:42 UTC
From: Oliver Goldenstein
Topic: 254 Message: 502

Hi All !

I hope you have or had a nice christmas !

I re read all the posts reagrding this topic and i do now realize, that i have the same error or misbehaviour.

I have the AS169 installed and have the same problem:

Strapped H5 1-2 i do have nice RX Signals but no transmit:

Strapped H5 2-3 i have no RX but have nice 100mW comming out on tx

To be honest i do not really understand what Sid's and Hank problem was. It is a bit confusing for me.

Please could you do a short summary where to look here.

Many thanks in advance!

Oliver DL6KBG

On 8 December 2011 06:34, Sid Boyce <sboyce@...> wrote:

>
>
> Late evenings and worse still in the early hours of the morning you can
> get ever so muddled and miss the things that are staring at you.
> Let us know how the rest of it goes. It's 05:32 and I'm heading off to bed
> for about 7 hours sleep.
> 73 ... Sid.
>
>
> On 08/12/11 05:19, Hank wrote:
>
>
>
> Sid,
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> Forget this last post, I just realized that the AS169's are probably low
> enabled inputs so that taking RA/R low would be in effect enabling Receive
> so having H5 to pins 2/3 would work.
>
> It was your last post where you included Alan's comments about the AS169's
> being inverted inputs....I cannot supply the HMC544. Instead, I supply the
> Digikey equiv chip (AS169-73LF), but it has inverted input lines. Dave's
> new PCB supports the HMC544 or any of the other industry standard chips
> (which have the input lines inverted relative to the HMC544).

>
> But I didn't catch it until 5 minutes after I had finished my testing and
> made my last post. Some times its better to just keep quiet and mull things
> over.
>
> Hank
>
> --- In UHFSDR@yahoogroups.com, "Hank" <hank@...> <hank@...> wrote:
> >
> > Sid,
> >
> > I have the AS169's installed and with H5 in position 2/3, when in
> receive mode, receive is low and transmit is high which is reversed. This
> is what I get wiht H5 pin 2/3 jumppered when in receive mode.
> >
> > U6 pin 1 high, pin 2 high, pin 3 low = RA low
> > U6 pin 9 high, pin 10 high, pin 8 low = R low
> > U6 pin 4 low, pin 5 high, pin 6 high = TA high
> > U6 pin 12 high, pin 13 low, pin 11 high = T high
> >
> > If I put H5 in position 1/2, when in receive mode, receive is high and
> transmit is low. This is what I get
> >
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> > When pressing TUN in PowerSDR, with H5 in position 1/2, U6 pins 3/8
> drop, dropping RA and R while U6 pins 6/11 go high enabling TA and T. I
> think this is correct.
> >
> > If I move H5 to position 2/3 and press TUN in PowerSDR, U6 pins 3/8 go
> high, raising RA and R while U6 pins 6/11 go low disabling TA and T. This
> is exact opposite of what should happen isn't it?
> >
> > That is what I am seeing when I test my board with AS169's and can not
> figure out how it would work with H5 in position 2/3 jumpered.
> >
> > But then again I don't have a signal being decoded either way, so I am
> not sure what is really correct.
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> > Hank
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>
>
>
>

--
Oliver, DL6KBG, JO61UB
Blog: http://dl6kbg.blogspot.com

503. Re: [UHFSDR] Re: Strangeness with U2/U7 - Success!

Yahoo group: UHFSDR
Date: 2011-12-26 15:26:49 UTC
From: Oliver Goldenstein
Topic: 254 Message: 503

Hmm it works for me if i left H5 completly open. Then i do have RX and TX.

On 26 December 2011 14:39, Oliver Goldenstein <
oliver.goldenstein@...> wrote:

> Hi All !
>
> I hope you have or had a nice christmas !
>
> I re read all the posts reagrding this topic and i do now realize, that i
> have the same error or misbehaviour.
>
> I have the AS169 installed and have the same problem:
>
> Strapped H5 1-2 i do have nice RX Signals but no transmit:
>
> Strapped H5 2-3 i have no RX but have nice 100mW comming out on tx
>
> To be honest i do not really understand what Sid's and Hank problem was.
> It is a bit confusing for me.
>
> Please could you do a short summary where to look here.
>
> Many thanks in advance!
>
> Oliver DL6KBG
>
>
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>> Late evenings and worse still in the early hours of the morning you can
>> get ever so muddled and miss the things that are staring at you.
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>> AS169's being inverted inputs....I cannot supply the HMC544. Instead, I
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>> lines. Dave's new PCB supports the HMC544 or any of the other industry
>> standard chips (which have the input lines inverted relative to the HMC544).
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504. RE: [UHFSDR] Re: Strangeness with U2/U7 - Success!

Yahoo group: UHFSDR
Date: 2011-12-26 15:28:25 UTC
From: MIKE DURKIN
Topic: 254 Message: 504

Now that's odd ....

But if it works ...

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: oliver.goldenstein@...
Date: Mon, 26 Dec 2011 16:26:49 +0100
Subject: Re: [UHFSDR] Re: Strangeness with U2/U7 - Success!

Hmm it works for me if i left H5 completly open. Then i do have RX and TX.

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505. Re: Strangeness with U2/U7 - Success!

Yahoo group: UHFSDR
Date: 2011-12-26 16:12:32 UTC
From: Hank
Topic: 254 Message: 505

Oliver,

Merry Christmas. The problem I was having was that I could not verify all the tests in the build instructions, so I decided to trace out the logic based upon the schematic. I was able to verify, after realizing that the AS169's were low input enabled, that having H5 in position 2/3 works for the AS169's even though a couple of the tests listed in the assembly manual had failed, so don't get to worked up on that. Dave said he would go back through his notes as he recalls some inconsistencies in the instructions with regard to these tests. I have not seen this update yet, but I assure you that my Rx/Tx switching works fine with AS169's and H5 in positions 2/3.

73,
Hank
WZ3HMT

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> Hi All !
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> I hope you have or had a nice christmas !
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> > new PCB supports the HMC544 or any of the other industry standard chips
> > (which have the input lines inverted relative to the HMC544).
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> > But I didn't catch it until 5 minutes after I had finished my testing and
> > made my last post. Some times its better to just keep quiet and mull things
> > over.
> >
> > Hank
> >
> > --- In UHFSDR@yahoogroups.com, "Hank" <hank@> <hank@> wrote:
> > >
> > > Sid,
> > >
> > > I have the AS169's installed and with H5 in position 2/3, when in
> > receive mode, receive is low and transmit is high which is reversed. This
> > is what I get wiht H5 pin 2/3 jumppered when in receive mode.
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> > > U6 pin 1 high, pin 2 high, pin 3 low = RA low
> > > U6 pin 9 high, pin 10 high, pin 8 low = R low
> > > U6 pin 4 low, pin 5 high, pin 6 high = TA high
> > > U6 pin 12 high, pin 13 low, pin 11 high = T high
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> > > If I put H5 in position 1/2, when in receive mode, receive is high and
> > transmit is low. This is what I get
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> > > When pressing TUN in PowerSDR, with H5 in position 1/2, U6 pins 3/8
> > drop, dropping RA and R while U6 pins 6/11 go high enabling TA and T. I
> > think this is correct.

> > >
> > > If I move H5 to position 2/3 and press TUN in PowerSDR, U6 pins 3/8 go
> > high, raising RA and R while U6 pins 6/11 go low disabling TA and T. This
> > is exact opposite of what should happen isn't it?
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> > > That is what I am seeing when I test my board with AS169's and can not
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> Oliver, DL6KBG, JO61UB
> Blog: http://dl6kbg.blogspot.com
>

506. Re: [UHFSDR] Re: Strangeness with U2/U7 - Success!

Yahoo group: UHFSDR
Date: 2011-12-26 16:27:06 UTC
From: Sid Boyce
Topic: 254 Message: 506

Scratched my head over that one but it looks like it would work with
H5-2 floating.
73 ... Sid.

On 26/12/11 15:28, MIKE DURKIN wrote:
>
> Now that's odd ....
>
> But if it works ...
>
>
> Mike KC7NOA
>
> ---
> To: UHFSDR@yahoogroups.com
> From: oliver.goldenstein@...
> Date: Mon, 26 Dec 2011 16:26:49 +0100
> Subject: Re: [UHFSDR] Re: Strangeness with U2/U7 - Success!
>
> Hmm it works for me if i left H5 completly open. Then i do have RX and TX.
>
>
>
> On 26 December 2011 14:39, Oliver Goldenstein
> <oliver.goldenstein@...
> <mailto:oliver.goldenstein@...>> wrote:
>
> Hi All !
>
> I hope you have or had a nice christmas !
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> I re read all the posts reagrding this topic and i do now realize,
> that i have the same error or misbehaviour.
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> I have the AS169 installed and have the same problem:
>
> Strapped H5 1-2 i do have nice RX Signals but no transmit:
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> Strapped H5 2-3 i have no RX but have nice 100mW comming out on tx
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> To be honest i do not really understand what Sid's and Hank
> problem was. It is a bit confusing for me.
>
> Please could you do a short summary where to look here.
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> Many thanks in advance!
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> Oliver DL6KBG
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> On 8 December 2011 06:34, Sid Boyce <sboyce@...
> <mailto:sboyce@...>> wrote:
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>
> Late evenings and worse still in the early hours of the
> morning you can get ever so muddled and miss the things that
> are staring at you.
> Let us know how the rest of it goes. It's 05:32 and I'm
> heading off to bed for about 7 hours sleep.
> 73 ... Sid.
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> On 08/12/11 05:19, Hank wrote:
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> Sid,
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> Forget this last post, I just realized that the AS169's
> are probably low enabled inputs so that taking RA/R low
> would be in effect enabling Receive so having H5 to pins
> 2/3 would work.
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> about the AS169's being inverted inputs....I cannot supply
> the HMC544. Instead, I supply the Digikey equiv chip
> (AS169-73LF), but it has inverted input lines. Dave's new
> PCB supports the HMC544 or any of the other industry
> standard chips (which have the input lines inverted
> relative to the HMC544).
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507. Re: [UHFSDR] Re: Strangeness with U2/U7 - Success!

Yahoo group: UHFSDR
Date: 2011-12-26 16:30:46 UTC
From: Oliver Goldenstein
Topic: 254 Message: 507

Hi Mike, Hank and Sid, thanks for your replies:

yes it works have H5 completly open and nice RX and full TX 100 mW out with
that configuration.

With H5 2-3 i get only TX and with H5 1-2 only RX.

73 Oliver DL6KBG

On 26 December 2011 17:27, Sid Boyce <sboyce@...> wrote:

>
>
> Scratched my head over that one but it looks like it would work with H5-2
> floating.
> 73 ... Sid.
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> On 26/12/11 15:28, MIKE DURKIN wrote:
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> From: oliver.goldenstein@...
> Date: Mon, 26 Dec 2011 16:26:49 +0100
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> Hi All !
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> Digikey equiv chip (AS169-73LF), but it has inverted input lines. Dave's
> new PCB supports the HMC544 or any of the other industry standard chips
> (which have the input lines inverted relative to the HMC544).
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> But I didn't catch it until 5 minutes after I had finished my testing and
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508. Re: [UHFSDR] Re: Strangeness with U2/U7 - Success!

Yahoo group: UHFSDR
Date: 2011-12-26 16:35:18 UTC
From: Sid Boyce
Topic: 254 Message: 508

For a start, remove the reference to AS157's.
I found some tests didn't work as written so I used the circuit diagram
to work out what should happen and though the AS157's seemed to be doing
what was needed I couldn't get RX/TX to work, just one or the other
depending on H5 strapping.

Having replaced them with other AS157's RX/TX wouldn't work.
The AS169's with H5 2-3 strapped works.
73 ... Sid.

On 26/12/11 16:12, Hank wrote:
>
> Oliver,
>
> Merry Christmas. The problem I was having was that I could not verify
> all the tests in the build instructions, so I decided to trace out the
> logic based upon the schematic. I was able to verify, after realizing
> that the AS169's were low input enabled, that having H5 in position
> 2/3 works for the AS169's even though a couple of the tests listed in
> the assembly manual had failed, so don't get to worked up on that.
> Dave said he would go back through his notes as he recalls some
> inconsistencies in the instructions with regard to these tests. I have
> not seen this update yet, but I assure you that my Rx/Tx switching
> works fine with AS169's and H5 in positions 2/3.
>
> 73,
> Hank
> WZ3HMT
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
> Oliver Goldenstein <oliver.goldenstein@...> wrote:
> >
> > Hi All !
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> > To be honest i do not really understand what Sid's and Hank problem
> was. It
> > is a bit confusing for me.
> >
> > Please could you do a short summary where to look here.
> >
> > Many thanks in advance!
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> > Oliver DL6KBG
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> > On 8 December 2011 06:34, Sid Boyce <sboyce@...> wrote:
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509. UHFSDR TX Test with QtRadio

Yahoo group: UHFSDR
Date: 2011-12-26 19:16:19 UTC
From: Oliver Goldenstein
Topic: 509 Message: 509

OK, i needed a little success story on the last holiday :-)

Finally i got RX/TX switching on the UHFSDR working.

Next is the Amplifier and a case when the widget arrived.

Happy Holidays:

http://www.youtube.com/watch?v=Okx_tCu4hcs

73 Oliver DL6KBG

--
Oliver, DL6KBG, JO61UB
Blog: http://dl6kbg.blogspot.com

510. Re: [UHFSDR] Re: Strangeness with U2/U7 - Success!

Yahoo group: UHFSDR
Date: 2011-12-26 21:43:44 UTC
From: Sid Boyce
Topic: 254 Message: 510

That was well spotted Oliver and one combination I didn't try.

I'm all wired up to test the 15W PA using Larry's PTT circuit, Alex's PA switching/bypass relay sequencing circuit and taking the PA /PTT from H5 using an open jumper with with a wire soldered to the exposed cross bar.
73 ... Sid.

On 26/12/11 16:30, Oliver Goldenstein wrote:
>
> Hi Mike, Hank and Sid, thanks for your replies:
>
> yes it works have H5 completly open and nice RX and full TX 100 mW out
> with that configuration.
>
> With H5 2-3 i get only TX and with H5 1-2 only RX.
>
> 73 Oliver DL6KBG
>
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> On 26 December 2011 17:27, Sid Boyce <sboyce@...
> <mailto:sboyce@...>> wrote:
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>> To: UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
>> From: oliver.goldenstein@...
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>> Date: Mon, 26 Dec 2011 16:26:49 +0100
>> Subject: Re: [UHFSDR] Re: Strangeness with U2/U7 - Success!

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>> >
>> > U6 pin 1 high, pin 2 low, pin 3 high = RA high
>> > U6 pin 9 low, pin 10 high, pin 8 high = R high
>> > U6 pin 4 high, pin 5 high, pin 6 low = TA low
>> > U6 pin 12 high, pin 13 high, pin 11 low = T low
>> >
>> > When pressing TUN in PowerSDR, with H5 in position
>> 1/2, U6 pins 3/8 drop, dropping RA and R while U6
>> pins 6/11 go high enabling TA and T. I think this is
>> correct.
>> >
>> > If I move H5 to position 2/3 and press TUN in

>> PowerSDR, U6 pins 3/8 go high, raising RA and R while
>> U6 pins 6/11 go low disabling TA and T. This is exact
>> opposite of what should happen isn't it?
>> >
>> > That is what I am seeing when I test my board with
>> AS169's and can not figure out how it would work with
>> H5 in position 2/3 jumpered.
>> >
>> > But then again I don't have a signal being decoded
>> either way, so I am not sure what is really correct.
>> >
>> > Hank
>> >
>>
>>
>>
>>
>> --
>> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
>> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
>> Senior Staff Specialist, Cricket Coach
>> Microsoft Windows Free Zone - Linux used for all Computing Tasks
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>> --
>> Oliver, DL6KBG, JO61UB
>> Blog: http://dl6kbg.blogspot.com
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>> Oliver, DL6KBG, JO61UB
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> Blog: http://dl6kbg.blogspot.com
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Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

511. Re: [UHFSDR] Re: Strangeness with U2/U7 - Success!

Yahoo group: UHFSDR
Date: 2011-12-26 21:55:24 UTC
From: Oliver Goldenstein
Topic: 254 Message: 511

thanks Sid !

Bit isnt it confusing. but it works :-)

Dave please respond, so that others are not confused !

Merry X-Mas

Oliver

On 26 December 2011 22:43, Sid Boyce <sboyce@...> wrote:

>
>
> That was well spotted Oliver and one combination I didn't try.
>
> I'm all wired up to test the 15W PA using Larry's PTT circuit, Alex's PA
> switching/bypass relay sequencing circuit and taking the PA /PTT from H5
> using an open jumper with with a wire soldered to the exposed cross bar.
> 73 ... Sid.
>
>
> On 26/12/11 16:30, Oliver Goldenstein wrote:
>
>
>
> Hi Mike, Hank and Sid, thanks for your replies:
>
> yes it works have H5 completly open and nice RX and full TX 100 mW out
> with that configuration.
>
> With H5 2-3 i get only TX and with H5 1-2 only RX.
>
> 73 Oliver DL6KBG
>
>
>
> On 26 December 2011 17:27, Sid Boyce <sboyce@...> wrote:
>
>>
>>
>> Scratched my head over that one but it looks like it would work with H5-2
>> floating.
>> 73 ... Sid.
>>
>>

>> On 26/12/11 15:28, MIKE DURKIN wrote:
>>
>>
>>
>> Now that's odd ....
>>
>> But if it works ...
>>
>>
>> Mike KC7NOA
>>
>> ----------
>> To: UHFSDR@yahoogroups.com
>> From: oliver.goldenstein@...
>> Date: Mon, 26 Dec 2011 16:26:49 +0100
>> Subject: Re: [UHFSDR] Re: Strangeness with U2/U7 - Success!
>>
>>
>> Hmm it works for me if i left H5 completly open. Then i do have RX and
>> TX.
>>
>>
>>
>> On 26 December 2011 14:39, Oliver Goldenstein <
>> oliver.goldenstein@...> wrote:
>>
>> Hi All !
>>
>> I hope you have or had a nice christmas !
>>
>> I re read all the posts reagrding this topic and i do now realize, that i
>> have the same error or misbehaviour.
>>
>> I have the AS169 installed and have the same problem:
>>
>> Strapped H5 1-2 i do have nice RX Signals but no transmit:
>>
>> Strapped H5 2-3 i have no RX but have nice 100mW comming out on tx
>>
>> To be honest i do not really understand what Sid's and Hank problem was.
>> It is a bit confusing for me.
>>
>> Please could you do a short summary where to look here.
>>
>> Many thanks in advance!
>>
>> Oliver DL6KBG
>>
>>
>> On 8 December 2011 06:34, Sid Boyce <sboyce@...> wrote:

>>
>>
>>
>> Late evenings and worse still in the early hours of the morning you can
>> get ever so muddled and miss the things that are staring at you.
>> Let us know how the rest of it goes. It's 05:32 and I'm heading off to
>> bed for about 7 hours sleep.
>> 73 ... Sid.
>>
>>
>> On 08/12/11 05:19, Hank wrote:
>>
>>
>>
>> Sid,
>>
>> Forget this last post, I just realized that the AS169's are probably low
>> enabled inputs so that taking RA/R low would be in effect enabling Receive
>> so having H5 to pins 2/3 would work.
>>
>> It was your last post where you included Alan's comments about the
>> AS169's being inverted inputs....I cannot supply the HMC544. Instead, I
>> supply the Digikey equiv chip (AS169-73LF), but it has inverted input
>> lines. Dave's new PCB supports the HMC544 or any of the other industry
>> standard chips (which have the input lines inverted relative to the HMC544).
>>
>> But I didn't catch it until 5 minutes after I had finished my testing and
>> made my last post. Some times its better to just keep quiet and mull things
>> over.
>>
>> Hank
>>
>> --- In UHFSDR@yahoogroups.com, "Hank" <hank@...> <hank@...> wrote:
>> >
>> > Sid,
>> >
>> > I have the AS169's installed and with H5 in position 2/3, when in
>> receive mode, receive is low and transmit is high which is reversed. This
>> is what I get wiht H5 pin 2/3 jumppered when in receive mode.
>> >
>> > U6 pin 1 high, pin 2 high, pin 3 low = RA low
>> > U6 pin 9 high, pin 10 high, pin 8 low = R low
>> > U6 pin 4 low, pin 5 high, pin 6 high = TA high
>> > U6 pin 12 high, pin 13 low, pin 11 high = T high
>> >
>> > If I put H5 in position 1/2, when in receive mode, receive is high and
>> transmit is low. This is what I get
>> >
>> > U6 pin 1 high, pin 2 low, pin 3 high = RA high
>> > U6 pin 9 low, pin 10 high, pin 8 high = R high

>> > U6 pin 4 high, pin 5 high, pin 6 low = TA low
>> > U6 pin 12 high, pin 13 high, pin 11 low = T low
>> >
>> > When pressing TUN in PowerSDR, with H5 in position 1/2, U6 pins 3/8
>> drop, dropping RA and R while U6 pins 6/11 go high enabling TA and T. I
>> think this is correct.
>> >
>> > If I move H5 to position 2/3 and press TUN in PowerSDR, U6 pins 3/8 go
>> high, raising RA and R while U6 pins 6/11 go low disabling TA and T. This
>> is exact opposite of what should happen isn't it?
>> >
>> > That is what I am seeing when I test my board with AS169's and can not
>> figure out how it would work with H5 in position 2/3 jumpered.
>> >
>> > But then again I don't have a signal being decoded either way, so I am
>> not sure what is really correct.
>> >
>> > Hank
>> >
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>> --
>> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
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> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
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> Senior Staff Specialist, Cricket Coach
> Microsoft Windows Free Zone - Linux used for all Computing Tasks
>
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--
Oliver, DL6KBG, JO61UB
Blog: http://dl6kbg.blogspot.com

512. UHFSDR 70cm with Grade B SI570 Tests

Yahoo group: UHFSDR
Date: 2011-12-29 21:01:37 UTC
From: Oliver Goldenstein
Topic: 512 Message: 512

Hi All!

You may now i am a bit a nursery's child :-)

I do still a lot of Experiments with my UHFSDR which performs very
well and locally even without BPF's and a Preamp so far.

I definitely want to go on 70cm with my UHFSDR to receive Satellite Signals.

The first results you can see here, what is possible to do with a
UHFSDR and a Grade B SI570 (up to 810 MHZ /2 = 405 MHZ normally).

My Grade B SI570 works very well up to 440 MHZ.

I was not on 70cm for years and to be honest i am impressed about the
technical capabilities of modern Repeaters.

But have a look. UHFSDR with no BPF and a 2m/70cm Vertical on the balcony:

http://www.youtube.com/watch?v=5qr9rmz0OSo

Future Tasks:

The next is to build a filter for 2-Meter. The parts are already in
and the design is from here:

http://yu1lm.qrpradio.com/2m%20BP%20FILTER-YU1LM.pdf.

and i ordered a LNA/BPF for 70cm from Roberto DG0VE just around the corner:

http://www.dg0ve.de/LNA70_1_2010_001.pdf

So stay tuned.

73 de Oliver DL6KBG and to all a happy and successful new year

--
Oliver, DL6KBG, JO61UB
http://www.youtube.com/user/OliverGoldenstein

513. Re: [UHFSDR] UHFSDR 70cm with Grade B SI570 Tests

Yahoo group: UHFSDR
Date: 2011-12-29 22:01:29 UTC
From: Sid Boyce
Topic: 512 Message: 513

Probably devices that do not make A grade spec are classified as B grade
and ones that don't make B grade are classified as C grade.
I just did a quick and dirty test setting an Ensemble rxtx with a C
grade si570 to 90Mhz. It set and read back OK but I would have to remove
it from its enclosure to have a look with scope and frequency meter.
73 ... Sid.

On 29/12/11 21:01, Oliver Goldenstein wrote:
>
> Hi All!
>
> You may now i am a bit a nursery's child :-)
>
> I do still a lot of Experiments with my UHFSDR which performs very
> well and locally even without BPF's and a Preamp so far.
>
> I definitely want to go on 70cm with my UHFSDR to receive Satellite
> Signals.
>
> The first results you can see here, what is possible to do with a
> UHFSDR and a Grade B SI570 (up to 810 MHZ /2 = 405 MHZ normally).
>
> My Grade B SI570 works very well up to 440 MHZ.
>
> I was not on 70cm for years and to be honest i am impressed about the
> technical capabilities of modern Repeaters.
>
> But have a look. UHFSDR with no BPF and a 2m/70cm Vertical on the balcony:
>
> http://www.youtube.com/watch?v=5qr9rmz0OSo
>
> Future Tasks:
>
> The next is to build a filter for 2-Meter. The parts are already in
> and the design is from here:
>
> http://yu1lm.qrpradio.com/2m%20BP%20FILTER-YU1LM.pdf.
>
> and i ordered a LNA/BPF for 70cm from Roberto DG0VE just around the
> corner:
>
> http://www.dg0ve.de/LNA70_1_2010_001.pdf
>
> So stay tuned.
>

> 73 de Oliver DL6KBG and to all a happy and successful new year
>
> --
> Oliver, DL6KBG, JO61UB
> http://www.youtube.com/user/OliverGoldenstein
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

514. RE: [UHFSDR] UHFSDR 70cm with Grade B SI570 Tests

Yahoo group: UHFSDR
Date: 2011-12-29 22:24:06 UTC
From: MIKE DURKIN
Topic: 512 Message: 514

Iv wondered if a Ole mitrek might be a good candidate for the bandpass AND PA .....

Any thoughts .... I really wonder about SSB linearity .... but im gona give it a "ham" try anyways ....

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: sboyce@...
Date: Thu, 29 Dec 2011 22:01:29 +0000
Subject: Re: [UHFSDR] UHFSDR 70cm with Grade B SI570 Tests

Probably devices that do not make A grade spec are classified as B grade and ones that don't make B grade are classified as C grade.

I just did a quick and dirty test setting an Ensemble rxtx with a C grade si570 to 90Mhz. It set and read back OK but I would have to remove it from its enclosure to have a look with scope and frequency meter.

73 ... Sid.

On 29/12/11 21:01, Oliver Goldenstein wrote:

Hi All!

You may now i am a bit a nursery's child :-)

I do still a lot of Experiments with my UHFSDR which performs very

well and locally even without BPF's and a Preamp so far.

I definitely want to go on 70cm with my UHFSDR to receive Satellite Signals.

The first results you can see here, what is possible to do with a

UHFSDR and a Grade B SI570 (up to 810 MHZ /2 = 405 MHZ normally).

My Grade B SI570 works very well up to 440 MHZ.

I was not on 70cm for years and to be honest i am impressed about the

technical capabilities of modern Repeaters.

But have a look. UHFSDR with no BPF and a 2m/70cm Vertical on the balcony:

http://www.youtube.com/watch?v=5qr9rmz0OSo

Future Tasks:

The next is to build a filter for 2-Meter. The parts are already in

and the design is from here:

http://yu1lm.qrpradio.com/2m%20BP%20FILTER-YU1LM.pdf.

and i ordered a LNA/BPF for 70cm from Roberto DG0VE just around the corner:

http://www.dg0ve.de/LNA70_1_2010_001.pdf

So stay tuned.

73 de Oliver DL6KBG and to all a happy and successful new year

--

Oliver, DL6KBG, JO61UB

http://www.youtube.com/user/OliverGoldenstein

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

515. UHFSDR Spectrum at Center high level

Yahoo group: UHFSDR
Date: 2012-01-01 19:05:46 UTC
From: Oliver Goldenstein
Topic: 515 Message: 515
Attachments: 1 described; binary payloads are missing from this source WARC

HI All !

Please see the attached picture. I operate the UHFSDR some time and yesterday i received my sdr-widget.

The "hill" in the center is with every soundcard i tried. because of that the sdr-widget is very sensitiv, the hill is higher than with other soundcards.

What is wrong with my UHFSDR?

--
Oliver, DL6KBG, JO61UB
Blog: http://dl6kbg.blogspot.com

516. RE: [UHFSDR] UHFSDR Spectrum at Center high level

Yahoo group: UHFSDR
Date: 2012-01-01 19:42:20 UTC
From: MIKE DURKIN
Topic: 515 Message: 516

This is a question unrelated to your problem ...

Did you remove the lowpass filter of the UHFSDR? I don't remember the rolloff freq but maybe that's what your seeing?

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: oliver.goldenstein@...
Date: Sun, 1 Jan 2012 20:05:46 +0100
Subject: [UHFSDR] UHFSDR Spectrum at Center high level

HI All !

Please see the attached picture. I operate the UHFSDR some time and

yesterday i received my sdr-widget.

The "hill" in the center is with every soundcard i tried. because of

that the sdr-widget is very sensitiv, the hill is higher than with

other soundcards.

What is wrong with my UHFSDR?

--

Oliver, DL6KBG, JO61UB

Blog: http://dl6kbg.blogspot.com

517. Re: [UHFSDR] UHFSDR Spectrum at Center high level

Yahoo group: UHFSDR
Date: 2012-01-01 20:57:37 UTC
From: w9amr@aol.com
Topic: 515 Message: 517

Hi Oliver

Could be a ground loop. Disconnect the antenna and or the TX I /Q and see
if it goes away.

Larry W9AMR

In a message dated 1/1/2012 2:05:53 P.M. Eastern Standard Time,
oliver.goldenstein@... writes:

HI All !

Please see the attached picture. I operate the UHFSDR some time and
yesterday i received my sdr-widget.

The "hill" in the center is with every soundcard i tried. because of
that the sdr-widget is very sensitiv, the hill is higher than with
other soundcards.

What is wrong with my UHFSDR?

--
Oliver, DL6KBG, JO61UB
Blog: _http://dl6kbg.blogspot.com_ (http://dl6kbg.blogspot.com/)

518. Re: [UHFSDR] UHFSDR Spectrum at Center high level

Yahoo group: UHFSDR
Date: 2012-01-02 15:58:13 UTC
From: Oliver Goldenstein
Topic: 515 Message: 518
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Larry and Mike !

Larry i did the following:

disconnected tx i/q = same picture as posted

disconnectet ground from rx i/q = same picture as posted

disconnected antenna = same picture as posted

running out of a gel cell battery.

Runnning only one wire without ground to the widget picture as attached.

I will have a look at the fresh received widget.

73 Oliver DL6KBG

On 1 January 2012 21:57, <w9amr@...> wrote:

> **
>
>
> Hi Oliver
>
> Could be a ground loop. Disconnect the antenna and or the TX I /Q and see
> if it goes away.
>
> Larry W9AMR
>
> In a message dated 1/1/2012 2:05:53 P.M. Eastern Standard Time,
> oliver.goldenstein@... writes:
>
>
>
> HI All !
>
> Please see the attached picture. I operate the UHFSDR some time and
> yesterday i received my sdr-widget.
>
> The "hill" in the center is with every soundcard i tried. because of
> that the sdr-widget is very sensitiv, the hill is higher than with
> other soundcards.
>
> What is wrong with my UHFSDR?
>

> --
> Oliver, DL6KBG, JO61UB
> Blog: http://dl6kbg.blogspot.com
>
>
>
>
>

--
Oliver, DL6KBG, JO61UB
Blog: http://dl6kbg.blogspot.com

519. Functionality of the j5 & j4 antennas outputs jacks

Yahoo group: UHFSDR
Date: 2012-01-04 02:20:56 UTC
From: mathisono
Topic: 519 Message: 519

What is the functionality of the j5 & j4 antennas jacks? Im unclear? Dose the board serve to have diversity receive and a selectable TX?

73 Mathison KJ6DZB

520. RE: [UHFSDR] Functionality of the j5 & j4 antennas outputs jacks

Yahoo group: UHFSDR
Date: 2012-01-04 02:38:24 UTC
From: MIKE DURKIN
Topic: 519 Message: 520

Diversity? I don't think so ...
Just separate Rx and Tx antenna or common Rx/Tx antenna ....

I could be wrong but I don't think so..

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: mathisono@...
Date: Wed, 4 Jan 2012 02:20:56 +0000
Subject: [UHFSDR] Functionality of the j5 & j4 antennas outputs jacks

What is the functionality of the j5 & j4 antennas jacks? Im unclear? Dose the board serve to have diversity receive and a selectable TX?

73 Mathison KJ6DZB

521. Re: [UHFSDR] Functionality of the j5 & j4 antennas outputs jacks

Yahoo group: UHFSDR
Date: 2012-01-04 03:23:42 UTC
From: Dave
Topic: 519 Message: 521

Mathison:
Mike is correct. You can have either a common Rx/Tx antenna or
separate Rx and Tx antennas.

Dave - WB6DHW
<http://wb6dhw.com>

On 1/3/2012 6:38 PM, MIKE DURKIN wrote:
>
> Diversity? I don't think so ...
> Just separate Rx and Tx antenna or common Rx/Tx antenna ....
>
> I could be wrong but I don't think so..
>
> Mike KC7NOA
>
> ---
> To: UHFSDR@yahoogroups.com
> From: mathisono@...
> Date: Wed, 4 Jan 2012 02:20:56 +0000
> Subject: [UHFSDR] Functionality of the j5 & j4 antennas outputs jacks
>
> What is the functionality of the j5 & j4 antennas jacks? Im unclear?
> Dose the board serve to have diversity receive and a selectable TX?
>
> 73 Mathison KJ6DZB
>
>
>

522. Re: Functionality of the j5 & j4 antennas outputs jacks

Yahoo group: UHFSDR
Date: 2012-01-04 06:31:29 UTC
From: mathisono
Topic: 519 Message: 522

By default witch one is witch? And how dose the RX front end handle being connected to the TX power output?

Mathison KJ6DZB

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> Mathison:
> Mike is correct. You can have either a common Rx/Tx antenna or
> separate Rx and Tx antennas.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 1/3/2012 6:38 PM, MIKE DURKIN wrote:
> >
> > Diversity? I don't think so ...
> > Just separate Rx and Tx antenna or common Rx/Tx antenna ....
> >
> > I could be wrong but I don't think so..
> >
> > Mike KC7NOA
> >
> > ---
> > To: UHFSDR@yahoogroups.com
> > From: mathisono@...
> > Date: Wed, 4 Jan 2012 02:20:56 +0000
> > Subject: [UHFSDR] Functionality of the j5 & j4 antennas outputs jacks
> >
> > What is the functionality of the j5 & j4 antennas jacks? Im unclear?
> > Dose the board serve to have diversity receive and a selectable TX?
> >
> > 73 Mathison KJ6DZB
> >
> >
> >
>

523. Re: [UHFSDR] Re: Functionality of the j5 & j4 antennas outputs jacks

Yahoo group: UHFSDR
Date: 2012-01-04 10:02:51 UTC
From: Dave
Topic: 519 Message: 523

Mathisono:

On 1/3/2012 10:31 PM, mathisono wrote:
>
> By default witch one is witch? And how dose the RX front end handle
> being connected to the TX power output?
>
H4 OPEN = Common Antenna at J4. H4 SHORTED = Separate antennas. TP4
is receive, TP5 is transmit. The RX is never connected to the TX power
output. With the common antenna, U2 and U7 do the switching.

Dave - WB6DHW
<http:wb6dhw.com>

> Mathison KJ6DZB
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Dave
> <dave@...> wrote:
> >
> > Mathison:
> > Mike is correct. You can have either a common Rx/Tx antenna or
> > separate Rx and Tx antennas.
> >
> > Dave - WB6DHW
> > <http://wb6dhw.com>
> >
> > On 1/3/2012 6:38 PM, MIKE DURKIN wrote:
> > >
> > > Diversity? I don't think so ...
> > > Just separate Rx and Tx antenna or common Rx/Tx antenna ....
> > >
> > > I could be wrong but I don't think so..
> > >
> > > Mike KC7NOA
> > >
> > > ----------
> > > To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> > > From: mathisono@...
> > > Date: Wed, 4 Jan 2012 02:20:56 +0000
> > > Subject: [UHFSDR] Functionality of the j5 & j4 antennas outputs jacks
> > >
> > > What is the functionality of the j5 & j4 antennas jacks? Im unclear?
> > > Dose the board serve to have diversity receive and a selectable TX?
> > >
> > > 73 Mathison KJ6DZB
> > >

> > >
> > >
> >
>
>

524. Re: [UHFSDR] Re: Functionality of the j5 & j4 antennas outputs jacks

Yahoo group: UHFSDR
Date: 2012-01-04 10:06:29 UTC
From: Dave
Topic: 519 Message: 524

Mathisono:
J5 is for an external oscillator to use in place of the Si570. You can also take output from the Si570 at J5. That was put in for those wanting to use the UHFSDR for 1296 or 2300 MHz or 3300(the upper 2 might require a different mixer).

Dave - WB6DHW
<http://wb6dhw.com>

On 1/3/2012 10:31 PM, mathisono wrote:
>
> By default witch one is witch? And how dose the RX front end handle
> being connected to the TX power output?
>
> Mathison KJ6DZB
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Dave
> <dave@...> wrote:
> >
> > Mathison:
> > Mike is correct. You can have either a common Rx/Tx antenna or
> > separate Rx and Tx antennas.
> >
> > Dave - WB6DHW
> > <http://wb6dhw.com>
> >
> > On 1/3/2012 6:38 PM, MIKE DURKIN wrote:
> > >
> > > Diversity? I don't think so ...
> > > Just separate Rx and Tx antenna or common Rx/Tx antenna ....
> > >
> > > I could be wrong but I don't think so..
> > >
> > > Mike KC7NOA
> > >
> > > ----------
> > > To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> > > From: mathisono@...
> > > Date: Wed, 4 Jan 2012 02:20:56 +0000
> > > Subject: [UHFSDR] Functionality of the j5 & j4 antennas outputs jacks
> > >
> > > What is the functionality of the j5 & j4 antennas jacks? Im unclear?
> > > Dose the board serve to have diversity receive and a selectable TX?
> > >
> > > 73 Mathison KJ6DZB

> > >
> > >
> > >
> >
>
>

525. Re: [UHFSDR] Functionality of the j5 & j4 antennas outputs jacks

Yahoo group: UHFSDR
Date: 2012-01-05 01:13:50 UTC
From: Jim Sanford
Topic: 519 Message: 525

Dave:
Below is an email I tried to send you via a link on your web site. It
was blocked.
Thanks & 73,
Jim
wb4gcs@...

This message was created automatically by mail delivery software.

A message that you sent could not be delivered to one or more of
its recipients. The following addresses failed:

<dave@...>

SMTP error from remote server in greeting:
host smtp.secureserver.net[216.69.186.201]:
554-m1pismtp01-004.prod.mesa1.secureserver.net
554 Your access to this mail system has been rejected due to spam or virus content. If you
believe that this failure is in error, please submit an unblock request
athttp://unblock.secureserver.net

Dave:
Quick question: As I converge toward ordering a kit, I'd eventually
like a USB interface, and 192 KHZ sample rate to get the bandwidth.
(This will be IF for my microwave xverters.
Reading an old description file, I see that there is a 50 KHz low pass
filter downstream of the receive mixers. Presumably, this would limit
response and bandwidth, rendering 192 KHz sample rate moot, in terms of
bandwidth. Is this correct, or has something changed, or do I just not
understand something?

Second question, since I will use this on the road with my laptop: Doe
the Cypress USB drivers as modified work with Windows7?

Thanks & very 73,
Jim
wb4gcs@...

On 1/3/2012 10:23 PM, Dave wrote:
>
> Mathison:
> Mike is correct. You can have either a common Rx/Tx antenna or
> separate Rx and Tx antennas.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>

> On 1/3/2012 6:38 PM, MIKE DURKIN wrote:
>
>> Diversity? I don't think so ...
>> Just separate Rx and Tx antenna or common Rx/Tx antenna ....
>>
>> I could be wrong but I don't think so..
>>
>> Mike KC7NOA
>>
>> ---
>> To: UHFSDR@yahoogroups.com
>> From: mathisono@...
>> Date: Wed, 4 Jan 2012 02:20:56 +0000
>> Subject: [UHFSDR] Functionality of the j5 & j4 antennas outputs jacks
>>
>> What is the functionality of the j5 & j4 antennas jacks? Im unclear?
>> Dose the board serve to have diversity receive and a selectable TX?
>>
>> 73 Mathison KJ6DZB
>>
>>
>
>

526. Re: [UHFSDR] Functionality of the j5 & j4 antennas outputs jacks

Yahoo group: UHFSDR
Date: 2012-01-05 01:36:01 UTC
From: Dave
Topic: 519 Message: 526

Jim:
I don't know what happened on the email. I got other messages today
with that address. For a 192 KHz A/D, the LPF after the mixers should
be raised to 100 KHz.

On 1/4/2012 5:13 PM, Jim Sanford wrote:
>
> Dave:
> Below is an email I tried to send you via a link on your web site. It
> was blocked.
> Thanks & 73,
> Jim
> wb4gcs@...
>
> This message was created automatically by mail delivery software.
>
> A message that you sent could not be delivered to one or more of
> its recipients. The following addresses failed:
>
> <dave@...>
>
> SMTP error from remote server in greeting:
> host smtp.secureserver.net[216.69.186.201]:
> 554-m1pismtp01-004.prod.mesa1.secureserver.net
> 554 Your access to this mail system has been rejected due to spam or virus content. If
you believe that this failure is in error, please submit an unblock request
athttp://unblock.secureserver.net
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> Quick question: As I converge toward ordering a kit, I'd eventually
> like a USB interface, and 192 KHZ sample rate to get the bandwidth.
> (This will be IF for my microwave xverters.
> Reading an old description file, I see that there is a 50 KHz low pass
> filter downstream of the receive mixers. Presumably, this would limit
> response and bandwidth, rendering 192 KHz sample rate moot, in terms
> of bandwidth. Is this correct, or has something changed, or do I just
> not understand something?
>
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>>> Mike KC7NOA
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>>> ---
>>> To: UHFSDR@yahoogroups.com
>>> From: mathisono@...
>>> Date: Wed, 4 Jan 2012 02:20:56 +0000
>>> Subject: [UHFSDR] Functionality of the j5 & j4 antennas outputs jacks
>>>
>>> What is the functionality of the j5 & j4 antennas jacks? Im unclear?
>>> Dose the board serve to have diversity receive and a selectable TX?
>>>
>>> 73 Mathison KJ6DZB
>>>
>>>
>>
>

527. Re: [UHFSDR] Functionality of the j5 & j4 antennas outputs jacks

Yahoo group: UHFSDR
Date: 2012-01-05 01:53:15 UTC
From: Jim Sanford
Topic: 519 Message: 527

Thanks!!!
73,
Jim

On 1/4/2012 8:36 PM, Dave wrote:
>
> Jim:
> I don't know what happened on the email. I got other messages today
> with that address. For a 192 KHz A/D, the LPF after the mixers should
> be raised to 100 KHz.
>
> On 1/4/2012 5:13 PM, Jim Sanford wrote:
>
>> Dave:
>> Below is an email I tried to send you via a link on your web site.
>> It was blocked.
>> Thanks & 73,
>> Jim
>> wb4gcs@...
>>
>> This message was created automatically by mail delivery software.
>>
>> A message that you sent could not be delivered to one or more of
>> its recipients. The following addresses failed:
>>
>> <dave@...>
>>
>> SMTP error from remote server in greeting:
>> host smtp.secureserver.net[216.69.186.201]:
>> 554-m1pismtp01-004.prod.mesa1.secureserver.net
>> 554 Your access to this mail system has been rejected due to spam or virus content. If
you believe that this failure is in error, please submit an unblock request
athttp://unblock.secureserver.net
>> Dave:
>> Quick question: As I converge toward ordering a kit, I'd eventually
>> like a USB interface, and 192 KHZ sample rate to get the bandwidth.
>> (This will be IF for my microwave xverters.
>> Reading an old description file, I see that there is a 50 KHz low
>> pass filter downstream of the receive mixers. Presumably, this would
>> limit response and bandwidth, rendering 192 KHz sample rate moot, in
>> terms of bandwidth. Is this correct, or has something changed, or do
>> I just not understand something?
>>
>> Second question, since I will use this on the road with my laptop:
>> Doe the Cypress USB drivers as modified work with Windows7?

>>
>> Thanks & very 73,
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>>
>>
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>>> Mike is correct. You can have either a common Rx/Tx antenna or
>>> separate Rx and Tx antennas.
>>>
>>> Dave - WB6DHW
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>>>
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>>>>
>>>> I could be wrong but I don't think so..
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>>>>
>>>> ---
>>>> To: UHFSDR@yahoogroups.com
>>>> From: mathisono@...
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>>>> Subject: [UHFSDR] Functionality of the j5 & j4 antennas outputs jacks
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>>>> What is the functionality of the j5 & j4 antennas jacks? Im
>>>> unclear? Dose the board serve to have diversity receive and a
>>>> selectable TX?
>>>>
>>>> 73 Mathison KJ6DZB
>>>>
>>>>
>>>
>
>

528. Packet Radio test with UHFSDR / SDR-Widhet and QtRadio at 8000 aLaw decoded by qtmm

Yahoo group: UHFSDR
Date: 2012-01-07 23:50:06 UTC
From: Oliver Goldenstein
Topic: 528 Message: 528

Hi All !

A "Stress-Test" word of the year 2011 in Germany :-)

http://youtu.be/skycTRRAllU

Have fun !

73

--
Oliver, DL6KBG, JO61UB
Blog: http://dl6kbg.blogspot.com

529. Re: Packet Radio test with UHFSDR / SDR-Widhet and QtRadio at 8000 aLaw decoded by qtmm

Yahoo group: UHFSDR
Date: 2012-01-07 23:51:28 UTC
From: Oliver Goldenstein
Topic: 528 Message: 529

ah and QTMM is here:

https://github.com/csete/qtmm

73 Oliver DL6KBG

On 8 January 2012 00:50, Oliver Goldenstein
<oliver.goldenstein@...> wrote:
> Hi All !
>
> A "Stress-Test" word of the year 2011 in Germany :-)
>
> http://youtu.be/skycTRRAllU
>
> Have fun !
>
> 73
>
> --
> Oliver, DL6KBG, JO61UB
> Blog: http://dl6kbg.blogspot.com

--
Oliver, DL6KBG, JO61UB
Blog: http://dl6kbg.blogspot.com

530. HO-68 Hope Oscar (XW-1) Satellite at Orbit 9922 received by UHFSDR with QtRadio 6-Element

Yahoo group: UHFSDR
Date: 2012-01-09 11:02:30 UTC
From: Oliver Goldenstein
Topic: 530 Message: 530

Hi All !

I wanted to proof, that that works. It does :-)

All done with hombrewed rigs and open source tools. By the way the frequency tracking done by gpredict in interaction with QtRadio works perfect.

http://www.youtube.com/watch?v=fwHSIyLsb54

--
Oliver, DL6KBG, JO61UB
Blog: http://dl6kbg.blogspot.com

531. FW: [sdr-widget] UHFSDR RXTX-RTP-SYMM on 70cm

Yahoo group: UHFSDR
Date: 2012-01-14 00:41:51 UTC
From: The Silver Fox
Topic: 531 Message: 531

```
-----Original Message-----
From: sdr-widget@... [mailto:sdr-widget@...] On
Behalf Of Oliver Goldenstein
Sent: Friday, January 13, 2012 4:35 PM
To: sdr-widget@...
Subject: Re: [sdr-widget] UHFSDR RXTX-RTP-SYMM on 70cm

Hi Alex !

Best chance is for Satellites with CW Beacons like:

HO-68
CO-65
Swisscube
Itupsat

received so far...but there are more.

Good luck... much appreciate to see a Video from far East :-)

Good Night

Oliver DL6KBG

On 14 January 2012 01:28, Alex Lee <alexlee188@...> wrote:
> Hi Oliver,
>
> Great!!!  I have been waiting to run your UHF server with gPredict :-).
Will connect to your server soon :-)
>
> Alex
>
> Sent from my iPhone
>
> On 14 Jan, 2012, at 7:30 AM, Oliver Goldenstein
<oliver.goldenstein@...> wrote:
>
>> Hi All !
>>
>> Upgraded the Server Software to RXTX-RTP-SYMM and it works in my LAN
>> very good so far.
>>
>> If you want to give it a try please note the following:
>>
>> I applied a 70cm LNA 0,4db Noise / 19 dB Gain and a hombrewed
>> Quadrifilar Helix for 70 cm to the UHFSDR.
>>
```

>> So far i can hear every Satellite at an Elevation of 29 Degrees.
>>
>> If you want to use gpredict please add my ground station =
"Dresden-Klotzsche"
>>
>> Other frequencies to test are the pager QRG's:
>>
>> 465.969500 MHz
>> 466.074500 MHz
>> 466.229500 MHz
>>
>> they are all POCSAG1200 Transmitters and they could be decoded with
multimon:
>>
>> http://www.baycom.org/~tom/ham/linux/multimon.html
>>
>> run it with:
>>
>> "aoss multimon"
>>
>> and have Fun... i have
>>
>> 73 Oliver DL6KBG
>>
>>
>>
>>
>>
>>
>>
>>
>> --
>> Oliver, DL6KBG, JO61UB
>> Blog: http://dl6kbg.blogspot.com
>>
>> --
>> ----------
>> To unsubscribe from this group, send email to
>> sdr-widget+unsubscribe@googlegroups.com
>> For more options, visit this group at
>> http://groups.google.com/group/sdr-widget
>
> --
> ----------
> To unsubscribe from this group, send email to
> sdr-widget+unsubscribe@...
> For more options, visit this group at
> http://groups.google.com/group/sdr-widget

--
Oliver, DL6KBG, JO61UB
Blog: http://dl6kbg.blogspot.com

--

To unsubscribe from this group, send email to
sdr-widget+unsubscribe@googlegroups.com
For more options, visit this group at
http://groups.google.com/group/sdr-widget

532. Re: [UHFSDR] FW: [sdr-widget] UHFSDR RXTX-RTP-SYMM on 70cm

Yahoo group: UHFSDR
Date: 2012-01-14 00:44:56 UTC
From: Oliver Goldenstein
Topic: 531 Message: 532

tnx Alan :-)

On 14 January 2012 01:41, The Silver Fox <alan.r.hill@gmail.com> wrote:
>
>
> -----Original Message-----
> From: sdr-widget@googlegroups.com [mailto:sdr-widget@...] On
> Behalf Of Oliver Goldenstein
> Sent: Friday, January 13, 2012 4:35 PM
> To: sdr-widget@...
> Subject: Re: [sdr-widget] UHFSDR RXTX-RTP-SYMM on 70cm
>
> Hi Alex !
>
> Best chance is for Satellites with CW Beacons like:
>
> HO-68
> CO-65
> Swisscube
> Itupsat
>
> received so far...but there are more.
>
> Good luck... much appreciate to see a Video from far East :-)
>
> Good Night
>
> Oliver DL6KBG
>
> On 14 January 2012 01:28, Alex Lee <alexlee188@...> wrote:
>> Hi Oliver,
>>
>> Great!!! I have been waiting to run your UHF server with gPredict :-).
> Will connect to your server soon :-)
>>
>> Alex
>>
>> Sent from my iPhone
>>
>> On 14 Jan, 2012, at 7:30 AM, Oliver Goldenstein
> <oliver.goldenstein@...> wrote:
>>
>>> Hi All !
>>>
>>> Upgraded the Server Software to RXTX-RTP-SYMM and it works in my LAN

>>> very good so far.
>>>
>>> If you want to give it a try please note the following:
>>>
>>> I applied a 70cm LNA 0,4db Noise / 19 dB Gain and a hombrewed
>>> Quadrifilar Helix for 70 cm to the UHFSDR.
>>>
>>> So far i can hear every Satellite at an Elevation of 29 Degrees.
>>>
>>> If you want to use gpredict please add my ground station =
> "Dresden-Klotzsche"
>>>
>>> Other frequencies to test are the pager QRG's:
>>>
>>> 465.969500 MHz
>>> 466.074500 MHz
>>> 466.229500 MHz
>>>
>>> they are all POCSAG1200 Transmitters and they could be decoded with
> multimon:
>>>
>>> http://www.baycom.org/~tom/ham/linux/multimon.html
>>>
>>> run it with:
>>>
>>> "aoss multimon"
>>>
>>> and have Fun... i have
>>>
>>> 73 Oliver DL6KBG
>>>
>>>
>>>
>>>
>>>
>>>
>>>
>>>
>>> --
>>> Oliver, DL6KBG, JO61UB
>>> Blog: http://dl6kbg.blogspot.com
>>>
>>> --
>>> ----------
>>> To unsubscribe from this group, send email to
>>> sdr-widget+unsubscribe@...
>>> For more options, visit this group at
>>> http://groups.google.com/group/sdr-widget
>>
>> --

```
>> --------------
>> To unsubscribe from this group, send email to
>> sdr-widget+unsubscribe@...
>> For more options, visit this group at
>> http://groups.google.com/group/sdr-widget
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> Oliver, DL6KBG, JO61UB
> Blog: http://dl6kbg.blogspot.com
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> --
> --------------
> To unsubscribe from this group, send email to
> sdr-widget+unsubscribe@...
> For more options, visit this group at
> http://groups.google.com/group/sdr-widget
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

--
Oliver, DL6KBG, JO61UB
Blog: http://dl6kbg.blogspot.com
```

533. E-Mail

Yahoo group: UHFSDR
Date: 2012-01-22 07:11:18 UTC
From: brainerdd
Topic: 533 Message: 533

A couple of months ago I dropped Wildblue. I think I got the email address changed on all my webpages. But, I forgot to change it on my invoices. The correct email should be

dave@...

535. RE: [UHFSDR] For Sale: UHFSDR PCB, Mini-Kit, complete remainder of BOM from Digikey, NO SI570

Yahoo group: UHFSDR
Date: 2012-01-29 21:00:20 UTC
From: The Silver Fox
Topic: 534 Message: 535

This is a great price. Far cheaper than I can provide. I recommend anyone interested to jump on the opportunity.

73's

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of n1gp
Sent: Sunday, January 29, 2012 12:18 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] For Sale: UHFSDR PCB, Mini-Kit, complete remainder of BOM from Digikey, NO SI570

I purchased this back in April 2011 and just can't seem to find the time to put it together.

The kit is complete MINUS the SI570. It has the UHFSDR-r1a PCB, the mini-kit of parts as provided via:

http://wb6dhw.com/For_Sale.html#UHFSDR

I also ordered all the parts from the Build of Materials from Digikey which are included.

NOTE: The SI570 IS NOT INCLUDED.

I hope this provides someone with more time to get a jump start on a really neat project.

I'm asking $80 and cost for 1st class shipping depending on your location.

Picture of the Parts: http://home.comcast.net/~n1gp/uhfsdr.jpg

email: n1gp AT hotmail DOT com

536. RE: [UHFSDR] For Sale: UHFSDR PCB, Mini-Kit, complete remainder of BOM from Digikey, NO SI570

Yahoo group: UHFSDR
Date: 2012-01-29 21:41:34 UTC
From: MIKE DURKIN
Topic: 534 Message: 536

Im interested in it ....

Im good in qrz... KC7NOA

99206

Paypal?

To: UHFSDR@yahoogroups.com
From: n1gp@...
Date: Sun, 29 Jan 2012 20:17:45 +0000
Subject: [UHFSDR] For Sale: UHFSDR PCB, Mini-Kit, complete remainder of BOM from Digikey, NO SI570

I purchased this back in April 2011 and just can't seem to find the time

to put it together.

The kit is complete MINUS the SI570. It has the UHFSDR-r1a PCB, the mini-kit of parts as provided via:

http://wb6dhw.com/For_Sale.html#UHFSDR

I also ordered all the parts from the Build of Materials from Digikey

which are included.

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I hope this provides someone with more time to get a jump start on a really neat project.

I'm asking $80 and cost for 1st class shipping depending on your location.

Picture of the Parts: http://home.comcast.net/~n1gp/uhfsdr.jpg

email: n1gp AT hotmail DOT com

537. Re: For Sale: UHFSDR PCB, Mini-Kit, complete remainder of BOM from Digikey, NO SI570

Yahoo group: UHFSDR
Date: 2012-01-29 23:34:33 UTC
From: n1gp
Topic: 534 Message: 537

Thanks all.

Mike bought it.

Only wish I had more spare time!

--- In UHFSDR@yahoogroups.com, "The Silver Fox" <alan.r.hill@...> wrote:
>
> This is a great price. Far cheaper than I can provide. I recommend anyone
> interested to jump on the opportunity.
>
> 73's
>
> Alan - W6ARH
>
>
>
>
>
> From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
> n1gp
> Sent: Sunday, January 29, 2012 12:18 PM
> To: UHFSDR@yahoogroups.com
> Subject: [UHFSDR] For Sale: UHFSDR PCB, Mini-Kit, complete remainder of BOM
> from Digikey, NO SI570
>
>
>
>
>
> I purchased this back in April 2011 and just can't seem to find the time
> to put it together.
>
> The kit is complete MINUS the SI570. It has the UHFSDR-r1a PCB, the mini-kit
> of parts as provided via:
>
> http://wb6dhw.com/For_Sale.html#UHFSDR
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> I also ordered all the parts from the Build of Materials from Digikey
> which are included.
>
> NOTE: The SI570 IS NOT INCLUDED.
>
> I hope this provides someone with more time to get a jump start on a really

> neat project.
>
> I'm asking $80 and cost for 1st class shipping depending on your location.
>
> Picture of the Parts: http://home.comcast.net/~n1gp/uhfsdr.jpg
>
> email: n1gp AT hotmail DOT com
>

538. Software and Si570 controllers

Yahoo group: UHFSDR
Date: 2012-01-30 00:37:13 UTC
From: brainerdd
Topic: 538 Message: 538

I would like to find out what software people are using with UHFSDR. I would also like to see what people are using to control the Si570. My computers have parallel ports, but many do not. I especially would like to see the hookups for USB solutions.

Dave - WB6DHW
<http://wb6dhw.com>

539. Re: [UHFSDR] Software and Si570 controllers

Yahoo group: UHFSDR
Date: 2012-01-30 00:40:57 UTC
From: Mathison Ott
Topic: 538 Message: 539

GHPSDR3...
http://napan.ca/ghpsdr3/index.php/Main_Page

73 kj6dzb

On Sun, Jan 29, 2012 at 4:37 PM, brainerdd <dave@...> wrote:

> **
>
>
> I would like to find out what software people are using with UHFSDR. I
> would also like to see what people are using to control the Si570. My
> computers have parallel ports, but many do not. I especially would like to
> see the hookups for USB solutions.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
>
>

540. Re: [UHFSDR] Software and Si570 controllers

Yahoo group: UHFSDR
Date: 2012-01-30 00:55:57 UTC
From: Sid Boyce
Topic: 538 Message: 540

Linrad, QtRadio from ghpsdr3-alex, quisk with the SDR-Widget all under
Linux.
73 ... Sid.

On 30/01/12 00:37, brainerdd wrote:
>
> I would like to find out what software people are using with UHFSDR. I
> would also like to see what people are using to control the Si570. My
> computers have parallel ports, but many do not. I especially would
> like to see the hookups for USB solutions.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

541. Re: [UHFSDR] TX driver

Yahoo group: UHFSDR
Date: 2012-01-30 01:07:30 UTC
From: Sid Boyce
Topic: 49 Message: 541

TX was working fine at 100mW.

I added a 15W PA (50 ohm in/out) and saw it go into oscillation with low output.
When I tried again barefoot the HMC482 gave no output.

I have a supply of HMC482's on hand.
Next time I try I shall insert a 3dB pad to see if that cures the problem.

What say Dave?
73 ... Sid.

On 30/01/11 05:33, Dave - WB6DHW wrote:
>
> Rainer:
> You are correct. The impedance of L1 becomes too low at low frequency.
> Either or both of the following work:
> Replace L1 with a 3.3 uH
> Remove C12,C13,C14.
> If you plan on using the UHFSDR both at 450 MHz and 80 or 160 Meters, the
> inductor at L1 must still have a good RF impedance at 450 MHz(ie the self
> resonance frequency needs to be in the VHF range). Yaesu, in the FT8X7
> designs
> that have a 5W amp that covers from 160M thru 450 MHz use 2 inductors
> in series
> - a 10 uH for low frequencies and something under .1 uH for VHF/UHF
> where the 10
> uH looks like a capacitor.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 1/29/2011 8:31 PM, rainerfeldkamp wrote:
> > Hi all
> >
> > After completing the UHFSDR starting with the partial kit, I am
> performing some measurements. Everything went fine so far, apart from
> the MMG3H21 driver.
> >
> > The measurements confirm Step 243 of the assembly manual in that the
> MMG3H21 starts severely distorting below about 15 MHz. I am
> considering cutting the trace between C13 and C14 and replacing it by
> an inductor of 3.3 ?H.
> >
> > Has anybody a better idea to decrease the lower frequency limit of
> the TX driver without impairing the upper limit (ERA-5 with larger

> supply resistance ?).
> >
> > Any hint would be highly appreciated.
> >
> > VY37
> >
> > Rainer, DJ6OA
> >
> >
> >
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

542. Re: [UHFSDR] TX driver

Yahoo group: UHFSDR
Date: 2012-01-30 01:41:13 UTC
From: Dave
Topic: 49 Message: 542

Sid:
I think a 3dB pad would help. The mmics are 50 ohm output impedance
and operate well into the GHz range. Even though the 15W amp may be 50
ohms at the operating frequency, it may not be at the harmonics which
are present at the UHFSDR.
What amps are others using and what are your results. I am working
on a 100W amp to go with the UHFSDR, but have not yet connected it.

Dave - WB6DHW
<http://wb6dhw.com>

On 1/29/2012 5:07 PM, Sid Boyce wrote:
>
> TX was working fine at 100mW.
>
> I added a 15W PA (50 ohm in/out) and saw it go into oscillation with
> low output.
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> I have a supply of HMC482's on hand.
> Next time I try I shall insert a 3dB pad to see if that cures the problem.
>
> What say Dave?
> 73 ... Sid.
>
> On 30/01/11 05:33, Dave - WB6DHW wrote:
>
>> Rainer:
>> You are correct. The impedance of L1 becomes too low at low frequency.
>> Either or both of the following work:
>> Replace L1 with a 3.3 uH
>> Remove C12,C13,C14.
>> If you plan on using the UHFSDR both at 450 MHz and 80 or 160 Meters,
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>> inductor at L1 must still have a good RF impedance at 450 MHz(ie the
>> self
>> resonance frequency needs to be in the VHF range). Yaesu, in the
>> FT8X7 designs
>> that have a 5W amp that covers from 160M thru 450 MHz use 2 inductors
>> in series
>> - a 10 uH for low frequencies and something under .1 uH for VHF/UHF
>> where the 10
>> uH looks like a capacitor.
>>
>> Dave - WB6DHW

>> <http://wb6dhw.com>
>>
>> On 1/29/2011 8:31 PM, rainerfeldkamp wrote:
>> > Hi all
>> >
>> > After completing the UHFSDR starting with the partial kit, I am
>> performing some measurements. Everything went fine so far, apart from
>> the MMG3H21 driver.
>> >
>> > The measurements confirm Step 243 of the assembly manual in that
>> the MMG3H21 starts severely distorting below about 15 MHz. I am
>> considering cutting the trace between C13 and C14 and replacing it by
>> an inductor of 3.3 ?H.
>> >
>> > Has anybody a better idea to decrease the lower frequency limit of
>> the TX driver without impairing the upper limit (ERA-5 with larger
>> supply resistance ?).
>> >
>> > Any hint would be highly appreciated.
>> >
>> > VY37
>> >
>> > Rainer, DJ6OA
>> >
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> --
> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
> Senior Staff Specialist, Cricket Coach
> Microsoft Windows Free Zone - Linux used for all Computing Tasks
>

543. RE: [UHFSDR] TX driver

Yahoo group: UHFSDR
Date: 2012-01-30 01:48:41 UTC
From: MIKE DURKIN
Topic: 49 Message: 543

Im using a modified 10w amp from diz from kits&parts ..... no longer sold ....

I get almost 20w with RD16HHF1 in it....
10 drops off but that's from another issue I need to fix ...

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Sun, 29 Jan 2012 17:41:13 -0800
Subject: Re: [UHFSDR] TX driver

Sid:

I think a 3dB pad would help. The mmics are 50 ohm output
impedance and operate well into the GHz range. Even though the 15W
amp may be 50 ohms at the operating frequency, it may not be at the
harmonics which are present at the UHFSDR.

What amps are others using and what are your results. I am
working on a 100W amp to go with the UHFSDR, but have not yet
connected it.

Dave - WB6DHW

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oscillation with low output.

When I tried again barefoot the HMC482 gave no output.

I have a supply of HMC482's on hand.

Next time I try I shall insert a 3dB pad to see if that
cures the problem.

What say Dave?

73 ... Sid.

On 30/01/11 05:33, Dave - WB6DHW wrote:

Rainer:

You are correct. The impedance of L1 becomes too low at low frequency.

Either or both of the following work:

Replace L1 with a 3.3 uH

Remove C12,C13,C14.

If you plan on using the UHFSDR both at 450 MHz and 80 or 160 Meters, the

inductor at L1 must still have a good RF impedance at 450 MHz(ie the self

resonance frequency needs to be in the VHF range). Yaesu, in the FT8X7 designs

that have a 5W amp that covers from 160M thru 450 MHz use 2 inductors in series

- a 10 uH for low frequencies and something under .1 uH for VHF/UHF where the 10

uH looks like a capacitor.

Dave - WB6DHW

<http://wb6dhw.com>

On 1/29/2011 8:31 PM, rainerfeldkamp wrote:

> Hi all

>

> After completing the UHFSDR starting with the partial kit, I am performing some measurements. Everything went fine so far, apart from the MMG3H21 driver.

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> The measurements confirm Step 243 of the assembly manual in that the MMG3H21 starts severely distorting below about 15 MHz. I am considering cutting the trace between C13 and C14 and replacing it by an inductor of 3.3 µH.

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> Has anybody a better idea to decrease the lower frequency limit of the TX driver without impairing the upper limit (ERA-5 with larger supply resistance ?).

>

> Any hint would be highly appreciated.

>

> VY37

>

> Rainer, DJ6OA

>

>

>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
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Microsoft Windows Free Zone - Linux used for all Computing Tasks

544. MPLPF

Yahoo group: UHFSDR
Date: 2012-01-30 02:28:34 UTC
From: brainerdd
Topic: 250 Message: 544

I just ordered 100 production boards for the MPLPF. The MPLPF is a 100W low pass filter board. The boards are 3" by 7.25 inches. They contain 7 5 pole low pass filters and have extra holes for parallel capacitors. They will work for elliptical filters as well as Butterworth filters. Relays are used for switching. Control can be either by I2C or via an external rotary switch. The boards are designed for T-50 toroids and should handle 100 watts easily.
I will be moving the description from the "Under Development page to the "For Sale" page in the next couple of days plus including a photo and assembly instructions.

Dave - WB6DHW
<http://wb6dhw.com>

545. Re: [UHFSDR] Software and Si570 controllers

Yahoo group: UHFSDR
Date: 2012-01-30 04:09:01 UTC
From: w9amr@aol.com
Topic: 538 Message: 545

In a message dated 1/29/2012 7:37:18 P.M. Eastern Standard Time,
dave@... writes:

I would like to find out what software people are using with UHFSDR. I
would also like to see what people are using to control the Si570. My
computers have parallel ports, but many do not. I especially would like to see the
hookups for USB solutions.

Dave - WB6DHW
<_http://wb6dhw.com_ (http://wb6dhw.com/) >

546. Re: [UHFSDR] Software and Si570 controllers

Yahoo group: UHFSDR
Date: 2012-01-30 04:15:12 UTC
From: w9amr@aol.com
Topic: 538 Message: 546

Hi Dave

I am using a SDR Widget soundcard/controller. OS is WinXP and software is PSDR v1.12. I am happy to share the interfacing to Widget info.

Larry W9AMR

In a message dated 1/29/2012 7:37:18 P.M. Eastern Standard Time, dave@... writes:

I would like to find out what software people are using with UHFSDR. I would also like to see what people are using to control the Si570. My computers have parallel ports, but many do not. I especially would like to see the hookups for USB solutions.

Dave - WB6DHW
<_http://wb6dhw.com_ (http://wb6dhw.com/) >

547. Re: [UHFSDR] TX driver

Yahoo group: UHFSDR
Date: 2012-01-30 04:55:06 UTC
From: w9amr@aol.com
Topic: 49 Message: 547

Hi Sid

Are you running a BPF after the UHFSDR?

In a message dated 1/29/2012 8:07:36 P.M. Eastern Standard Time,
sboyce@... writes:

TX was working fine at 100mW.

I added a 15W PA (50 ohm in/out) and saw it go into oscillation with low
output.
When I tried again barefoot the HMC482 gave no output.

I have a supply of HMC482's on hand.
Next time I try I shall insert a 3dB pad to see if that cures the problem.

What say Dave?
73 ... Sid.

On 30/01/11 05:33, Dave - WB6DHW wrote:

Rainer:
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Either or both of the following work:
Replace L1 with a 3.3 uH
Remove C12,C13,C14.
If you plan on using the UHFSDR both at 450 MHz and 80 or 160 Meters, the
inductor at L1 must still have a good RF impedance at 450 MHz(ie the self
resonance frequency needs to be in the VHF range). Yaesu, in the FT8X7
designs
that have a 5W amp that covers from 160M thru 450 MHz use 2 inductors in
series
- a 10 uH for low frequencies and something under .1 uH for VHF/UHF where
the 10
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Dave - WB6DHW
<_http://wb6dhw.com_ (http://wb6dhw.com/) >

On 1/29/2011 8:31 PM, rainerfeldkamp wrote:
> Hi all
>
> After completing the UHFSDR starting with the partial kit, I am
performing some measurements. Everything went fine so far, apart from the MMG3H21
driver.
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> The measurements confirm Step 243 of the assembly manual in that the

MMG3H21 starts severely distorting below about 15 MHz. I am considering
cutting the trace between C13 and C14 and replacing it by an inductor of 3.3 µH.
>
> Has anybody a better idea to decrease the lower frequency limit of the
TX driver without impairing the upper limit (ERA-5 with larger supply
resistance ?).
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Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,

Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support

Senior Staff Specialist, Cricket Coach

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548. Re: [UHFSDR] Re: For Sale: UHFSDR PCB, Mini-Kit, complete remainder of BOM fr...

Yahoo group: UHFSDR
Date: 2012-01-30 04:56:38 UTC
From: w9amr@aol.com
Topic: 548 Message: 548

It is a fun kit Mike! I think you will be pleased!

Larry W9AMR

In a message dated 1/29/2012 6:34:38 P.M. Eastern Standard Time,
n1gp@... writes:

Thanks all.

Mike bought it.

Only wish I had more spare time!

--- In _UHFSDR@yahoogroups.com_ (mailto:UHFSDR@yahoogroups.com) , "The
Silver Fox" <alan.r.hill@...> wrote:
>
> This is a great price. Far cheaper than I can provide. I recommend anyone
> interested to jump on the opportunity.
>
> 73's
>
> Alan - W6ARH
>
>
>
>
>
> From: _UHFSDR@yahoogroups.com_ (mailto:UHFSDR@yahoogroups.com)
[mailto:_UHFSDR@yahoogroups.com_ (mailto:UHFSDR@yahoogroups.com)] On Behalf Of
> n1gp
> Sent: Sunday, January 29, 2012 12:18 PM
> To: _UHFSDR@yahoogroups.com_ (mailto:UHFSDR@yahoogroups.com)
> Subject: [UHFSDR] For Sale: UHFSDR PCB, Mini-Kit, complete remainder of
BOM
> from Digikey, NO SI570
>
>
>
>
>
> I purchased this back in April 2011 and just can't seem to find the time
> to put it together.
>
> The kit is complete MINUS the SI570. It has the UHFSDR-r1a PCB, the
mini-kit

> of parts as provided via:
>
> _http://wb6dhw.com/For_Sale.html#UHFSDR_
(http://wb6dhw.com/For_Sale.html#UHFSDR)
>
> I also ordered all the parts from the Build of Materials from Digikey
> which are included.
>
> NOTE: The SI570 IS NOT INCLUDED.
>
> I hope this provides someone with more time to get a jump start on a
really
> neat project.
>
> I'm asking $80 and cost for 1st class shipping depending on your
location.
>
> Picture of the Parts: _http://home.comcast.net/~n1gp/uhfsdr.jpg_
(http://home.comcast.net/~n1gp/uhfsdr.jpg)
>
> email: n1gp AT hotmail DOT com
>

549. RE: [UHFSDR] Re: For Sale: UHFSDR PCB, Mini-Kit, complete remainder of BOM fr...

Yahoo group: UHFSDR
Date: 2012-01-30 06:43:22 UTC
From: MIKE DURKIN
Topic: 548 Message: 549

Yep .... its my second ...
Do you think im hooked?

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: w9amr@...
Date: Sun, 29 Jan 2012 23:56:38 -0500
Subject: Re: [UHFSDR] Re: For Sale: UHFSDR PCB, Mini-Kit, complete remainder of BOM fr...

It is a fun kit Mike! I think you will be pleased!

Larry W9AMR

In a message dated 1/29/2012 6:34:38 P.M. Eastern Standard Time,
n1gp@... writes:

Thanks all.

Mike bought it.

Only wish I had more spare
time!

--- In UHFSDR@yahoogroups.com, "The Silver
Fox" <alan.r.hill@...> wrote:
>
> This is a great price. Far
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> interested to jump on
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>
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INCLUDED.
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> I hope this provides someone with more time to get
a jump start on a really
> neat project.
>
> I'm asking $80
and cost for 1st class shipping depending on your location.
>
>
Picture of the Parts: http://home.comcast.net/~n1gp/uhfsdr.jpg
>

> email: n1gp AT hotmail DOT com
>

550. Re: [UHFSDR] Re: For Sale: UHFSDR PCB, Mini-Kit, complete remainder of BOM fr...

Yahoo group: UHFSDR
Date: 2012-01-30 07:30:04 UTC
From: w9amr@aol.com
Topic: 548 Message: 550

lol, Yep, your hooked (I have two as well).

Larry W9AMR

In a message dated 1/30/2012 1:43:25 A.M. Eastern Standard Time,
Patriot121@... writes:

Yep .... its my second ...
Do you think im hooked?

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: w9amr@...
Date: Sun, 29 Jan 2012 23:56:38 -0500
Subject: Re: [UHFSDR] Re: For Sale: UHFSDR PCB, Mini-Kit, complete
remainder of BOM fr...

It is a fun kit Mike! I think you will be pleased!

Larry W9AMR

In a message dated 1/29/2012 6:34:38 P.M. Eastern Standard Time,
n1gp@yahoo.com writes:

Thanks all.

Mike bought it.

Only wish I had more spare time!

--- In _UHFSDR@yahoogroups.com_ (mailto:UHFSDR@yahoogroups.com) , "The
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> From: _UHFSDR@yahoogroups.com_ (mailto:UHFSDR@yahoogroups.com)
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>
> email: n1gp AT hotmail DOT com
>

551. Re: Software and Si570 controllers

Yahoo group: UHFSDR
Date: 2012-01-30 07:46:15 UTC
From: sv1eia
Topic: 538 Message: 551

Hi Dave,

Just to report on your request.
It looks that about 20% of USB2SDR users using it for their UHFSDR.
In PowerSDR-IQ there are quite a few additions for UHFSDR like FM Wide/Narrow and CTCSS for repeaters with native frequency support on VHF and UHF bands, also provisions to configure the frequencies of a switchable 8-band filter either as BPF or LPF.

Eric KC5YOE has a nice success story here
"UHFSDR + USB2SDR = Flexible IF Rig"
"North Texas Microwave Society, KC5YOE's Talk on SDR IF Radios"
http://ntms.org/files/KC4YOE_UHFSDR-USB2SDR.pdf

73,
Christos SV1EIA

--- In UHFSDR@yahoogroups.com, "brainerdd" <dave@...> wrote:
>
> I would like to find out what software people are using with UHFSDR. I would also like to see what people are using to control the Si570. My computers have parallel ports, but many do not. I especially would like to see the hookups for USB solutions.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>

552. Re: [UHFSDR] TX driver

Yahoo group: UHFSDR
Date: 2012-01-30 09:36:08 UTC
From: Sid Boyce
Topic: 49 Message: 552

Thanks Dave,
That's another relevant question as so little is known about how
builders are using their UHFSDR's.
73 ... Sid.

On 30/01/12 01:41, Dave wrote:
>
> Sid:
> I think a 3dB pad would help. The mmics are 50 ohm output
> impedance and operate well into the GHz range. Even though the 15W
> amp may be 50 ohms at the operating frequency, it may not be at the
> harmonics which are present at the UHFSDR.
> What amps are others using and what are your results. I am working
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> On 1/29/2012 5:07 PM, Sid Boyce wrote:
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>> I added a 15W PA (50 ohm in/out) and saw it go into oscillation with
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>> When I tried again barefoot the HMC482 gave no output.
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>> I have a supply of HMC482's on hand.
>> Next time I try I shall insert a 3dB pad to see if that cures the
>> problem.
>>
>> What say Dave?
>> 73 ... Sid.
>>
>> On 30/01/11 05:33, Dave - WB6DHW wrote:
>>
>>> Rainer:
>>> You are correct. The impedance of L1 becomes too low at low frequency.
>>> Either or both of the following work:
>>> Replace L1 with a 3.3 uH
>>> Remove C12,C13,C14.
>>> If you plan on using the UHFSDR both at 450 MHz and 80 or 160
>>> Meters, the
>>> inductor at L1 must still have a good RF impedance at 450 MHz(ie the
>>> self
>>> resonance frequency needs to be in the VHF range). Yaesu, in the

>>> FT8X7 designs
>>> that have a 5W amp that covers from 160M thru 450 MHz use 2
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>>> - a 10 uH for low frequencies and something under .1 uH for VHF/UHF
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>>> uH looks like a capacitor.
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>>> Dave - WB6DHW
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>>> > Any hint would be highly appreciated.
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>>> > VY37
>>> >
>>> > Rainer, DJ6OA
>>> >
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>> --
>> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
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Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
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553. Re: [UHFSDR] TX driver

Yahoo group: UHFSDR
Date: 2012-01-30 09:38:21 UTC
From: Sid Boyce
Topic: 49 Message: 553

Mike,
Do you use an attenuator pad between the UHFSDR and the PA?
73 ... Sid.

On 30/01/12 01:48, MIKE DURKIN wrote:
>
> Im using a modified 10w amp from diz from kits&parts ..... no longer
> sold ....
>
> I get almost 20w with RD16HHF1 in it....
> 10 drops off but that's from another issue I need to fix ...
>
> Mike KC7NOA
>
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> To: UHFSDR@yahoogroups.com
> From: dave@...
> Date: Sun, 29 Jan 2012 17:41:13 -0800
> Subject: Re: [UHFSDR] TX driver
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> that have a 5W amp that covers from 160M thru 450 MHz use 2
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> (ERA-5 with larger supply resistance ?).
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--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

554. Re: [UHFSDR] TX driver

Yahoo group: UHFSDR
Date: 2012-01-30 09:54:38 UTC
From: Sid Boyce
Topic: 49 Message: 554

I do Larry,
UHFSDR --> RX/TX BPF's --> 15W PA -->50 ohm dummy load was the test setup.

The 15W PA is from an earlier HF transceiver project that drove a 200W solid state PA for a number of years and was tested into a dummy load with input from a signal generator before connecting it to the UHFSDR and for relay sequencing I used Alex's circuit which was very similar to the one I used with the 200W PA in the original transceiver.

At 100mW UHFSDR --> RX/TX BPF's --> Lightning Bolt Quad antenna.
73 ... Sid.

On 30/01/12 04:55, w9amr@... wrote:
>
> Hi Sid
> Are you running a BPF after the UHFSDR?
> In a message dated 1/29/2012 8:07:36 P.M. Eastern Standard Time,
> sboyce@... writes:
>
> TX was working fine at 100mW.
>
> I added a 15W PA (50 ohm in/out) and saw it go into oscillation
> with low output.
> When I tried again barefoot the HMC482 gave no output.
>
> I have a supply of HMC482's on hand.
> Next time I try I shall insert a 3dB pad to see if that cures the
> problem.
>
> What say Dave?
> 73 ... Sid.
>
> On 30/01/11 05:33, Dave - WB6DHW wrote:
>
>> Rainer:
>> You are correct. The impedance of L1 becomes too low at low
>> frequency.
>> Either or both of the following work:
>> Replace L1 with a 3.3 uH
>> Remove C12,C13,C14.
>> If you plan on using the UHFSDR both at 450 MHz and 80 or 160
>> Meters, the
>> inductor at L1 must still have a good RF impedance at 450 MHz(ie
>> the self
>> resonance frequency needs to be in the VHF range). Yaesu, in the
>> FT8X7 designs

>> that have a 5W amp that covers from 160M thru 450 MHz use 2
>> inductors in series
>> - a 10 uH for low frequencies and something under .1 uH for
>> VHF/UHF where the 10
>> uH looks like a capacitor.
>>
>> Dave - WB6DHW
>> <http://wb6dhw.com <http://wb6dhw.com/>>
>>
>> On 1/29/2011 8:31 PM, rainerfeldkamp wrote:
>> > Hi all
>> >
>> > After completing the UHFSDR starting with the partial kit, I am
>> performing some measurements. Everything went fine so far, apart
>> from the MMG3H21 driver.
>> >
>> > The measurements confirm Step 243 of the assembly manual in
>> that the MMG3H21 starts severely distorting below about 15 MHz. I
>> am considering cutting the trace between C13 and C14 and
>> replacing it by an inductor of 3.3 µH.
>> >
>> > Has anybody a better idea to decrease the lower frequency limit
>> of the TX driver without impairing the upper limit (ERA-5 with
>> larger supply resistance ?).
>> >
>> > Any hint would be highly appreciated.
>> >
>> > VY37
>> >
>> > Rainer, DJ6OA
>> >
>> >
>> >
>>
>
>
> --
> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
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555. Re: [UHFSDR] TX driver

Yahoo group: UHFSDR
Date: 2012-01-30 10:13:47 UTC
From: Dave
Topic: 49 Message: 555

Sid:
What RX/TX BPF's are you using?

Dave - WB6DHW
<http://wb6dhw.com>

On 1/30/2012 1:54 AM, Sid Boyce wrote:
>
> I do Larry,
> UHFSDR --> RX/TX BPF's --> 15W PA -->50 ohm dummy load was the test setup.
>
> The 15W PA is from an earlier HF transceiver project that drove a 200W
> solid state PA for a number of years and was tested into a dummy load
> with input from a signal generator before connecting it to the UHFSDR
> and for relay sequencing I used Alex's circuit which was very similar
> to the one I used with the 200W PA in the original transceiver.
>
> At 100mW UHFSDR --> RX/TX BPF's --> Lightning Bolt Quad antenna.
> 73 ... Sid.
>

556. Re: [UHFSDR] Re: For Sale: UHFSDR PCB, Mini-Kit, complete remainder of BOM fr...

Yahoo group: UHFSDR
Date: 2012-01-30 10:16:41 UTC
From: Sid Boyce
Topic: 548 Message: 556

Join the club Mike,
My first is sitting on the shelf waiting to be hooked up to another
SDR-Widget and put in a case. It's fully working.

I used the second one for troubleshooting the RX/TX switching problem
which turned out to be with the AS157's. Once that was sorted with the
AS169's it went into a case with the Widget with a small external 13.8V
-> 5V P.S using a 5A LM338T on a fan cooled large heatsink replacing the
on board LM7805 and also supplying +5V to the SDR-Widget.
73 ... Sid.

On 30/01/12 06:43, MIKE DURKIN wrote:
>
> Yep .... its my second ...
> Do you think im hooked?
>
> Mike KC7NOA
>
> ---
> To: UHFSDR@yahoogroups.com
> From: w9amr@...
> Date: Sun, 29 Jan 2012 23:56:38 -0500
> Subject: Re: [UHFSDR] Re: For Sale: UHFSDR PCB, Mini-Kit, complete
> remainder of BOM fr...
>
> It is a fun kit Mike! I think you will be pleased!
> Larry W9AMR
> In a message dated 1/29/2012 6:34:38 P.M. Eastern Standard Time,
> n1gp@... writes:
>
> Thanks all.
>
> Mike bought it.
>
> Only wish I had more spare time!
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
> "The Silver Fox" <alan.r.hill@...> wrote:
> >
> > This is a great price. Far cheaper than I can provide. I
> recommend anyone
> > interested to jump on the opportunity.
> >
> > 73's

> >
> > Alan - W6ARH
> >
> >
> >
> >
> >
> > From: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> [mailto:UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>]
> On Behalf Of
> > n1gp
> > Sent: Sunday, January 29, 2012 12:18 PM
> > To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> > Subject: [UHFSDR] For Sale: UHFSDR PCB, Mini-Kit, complete
> remainder of BOM
> > from Digikey, NO SI570
> >
> >
> >
> >
> >
> > I purchased this back in April 2011 and just can't seem to find
> the time
> > to put it together.
> >
> > The kit is complete MINUS the SI570. It has the UHFSDR-r1a PCB,
> the mini-kit
> > of parts as provided via:
> >
> > http://wb6dhw.com/For_Sale.html#UHFSDR
> >
> > I also ordered all the parts from the Build of Materials from
> Digikey
> > which are included.
> >
> > NOTE: The SI570 IS NOT INCLUDED.
> >
> > I hope this provides someone with more time to get a jump start
> on a really
> > neat project.
> >
> > I'm asking $80 and cost for 1st class shipping depending on your
> location.
> >
> > Picture of the Parts: http://home.comcast.net/~n1gp/uhfsdr.jpg
> <http://home.comcast.net/%7En1gp/uhfsdr.jpg>
> >
> > email: n1gp AT hotmail DOT com
> >
>

>
>

--
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557. Re: [UHFSDR] TX driver

Yahoo group: UHFSDR
Date: 2012-01-30 10:33:06 UTC
From: Sid Boyce
Topic: 49 Message: 557

Homebrewed ones from the QRP2000 project design with T37 and T50 cores
with SM caps.
They were built and used with the HiQSDR and swapped across to the UHFSDR.

The HiQSDR is soon to have it's own native preselector board with
everything for RX and TX including a 10W PA ready to go on 160m - 6m.
Right now it's on the internet without filters so guys can access it
remotely and tune all bands using QtRadio.
73 ... Sid.

On 30/01/12 10:13, Dave wrote:
>
> Sid:
> What RX/TX BPF's are you using?
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 1/30/2012 1:54 AM, Sid Boyce wrote:
>
>> I do Larry,
>> UHFSDR --> RX/TX BPF's --> 15W PA -->50 ohm dummy load was the test
>> setup.
>>
>> The 15W PA is from an earlier HF transceiver project that drove a
>> 200W solid state PA for a number of years and was tested into a dummy
>> load with input from a signal generator before connecting it to the
>> UHFSDR and for relay sequencing I used Alex's circuit which was very
>> similar to the one I used with the 200W PA in the original transceiver.
>>
>> At 100mW UHFSDR --> RX/TX BPF's --> Lightning Bolt Quad antenna.
>> 73 ... Sid.
>>
>
>

--
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558. RE: [UHFSDR] TX driver

Yahoo group: UHFSDR
Date: 2012-01-30 15:38:39 UTC
From: MIKE DURKIN
Topic: 49 Message: 558

Any one using the bandpass filters from wb6dhw?

Different type of filter uses escapes me for the moment.... ie why use one over the other type.... cheb instead of elliptic ..

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: sboyce@...
Date: Mon, 30 Jan 2012 09:54:38 +0000
Subject: Re: [UHFSDR] TX driver

I do Larry,

UHFSDR --> RX/TX BPF's --> 15W PA -->50 ohm dummy load was
the test setup.

The 15W PA is from an earlier HF transceiver project that drove a
200W solid state PA for a number of years and was tested into a
dummy load with input from a signal generator before connecting it
to the UHFSDR and for relay sequencing I used Alex's circuit which
was very similar to the one I used with the 200W PA in the original
transceiver.

At 100mW UHFSDR --> RX/TX BPF's --> Lightning Bolt Quad
antenna.

73 ... Sid.

On 30/01/12 04:55, w9amr@... wrote:

Hi Sid

Are you running a BPF after the UHFSDR?

In a message dated 1/29/2012 8:07:36 P.M. Eastern
Standard Time, sboyce@... writes:

TX was working fine at 100mW.

I added a 15W PA (50 ohm in/out) and saw it go
into oscillation with low output.

When I tried again barefoot the HMC482 gave no
output.

I have a supply of HMC482's on hand.

Next time I try I shall insert a 3dB pad to see
if that cures the problem.

What say Dave?

73 ... Sid.

On 30/01/11 05:33, Dave - WB6DHW wrote:

Rainer:

You are correct. The impedance of L1 becomes
too low at low frequency.

Either or both of the following work:

Replace L1 with a 3.3 uH

Remove C12,C13,C14.

If you plan on using the UHFSDR both at 450
MHz and 80 or 160 Meters, the

inductor at L1 must still have a good RF
impedance at 450 MHz(ie the self

resonance frequency needs to be in the VHF
range). Yaesu, in the FT8X7 designs

that have a 5W amp that covers from 160M
thru 450 MHz use 2 inductors in series

- a 10 uH for low frequencies and something
under .1 uH for VHF/UHF where the 10

uH looks like a capacitor.

Dave - WB6DHW

<http://wb6dhw.com>

On 1/29/2011 8:31 PM, rainerfeldkamp wrote:

> Hi all

>

> After completing the UHFSDR starting
with the partial kit, I am performing some
measurements. Everything went fine so far,
apart from the MMG3H21 driver.

>

> The measurements confirm Step 243 of
the assembly manual in that the MMG3H21

starts severely distorting below about 15
MHz. I am considering cutting the trace
between C13 and C14 and replacing it by an
inductor of 3.3 ÂµH.

>

> Has anybody a better idea to decrease
the lower frequency limit of the TX driver
without impairing the upper limit (ERA-5
with larger supply resistance ?).

>

> Any hint would be highly appreciated.

>

> VY37

>

> Rainer, DJ6OA

>

>

>

--
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559. RE: [UHFSDR] TX driver

Yahoo group: UHFSDR
Date: 2012-01-30 15:57:34 UTC
From: MIKE DURKIN
Topic: 49 Message: 559

No, but I do use a BPF that's original to the radio its in ..... an Atlas350XL. Its variable with what seems like steep skirts and is in between the PA & UHFSDR.

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: sboyce@blueyonder.co.uk
Date: Mon, 30 Jan 2012 09:38:21 +0000
Subject: Re: [UHFSDR] TX driver

Mike,

Do you use an attenuator pad between the UHFSDR and the PA?

73 ... Sid.

On 30/01/12 01:48, MIKE DURKIN wrote:

Im using a modified 10w amp from diz from
kits&parts ..... no longer sold ....

I get almost 20w with RD16HHF1 in it....

10 drops off but that's from another issue I need to fix
...

Mike KC7NOA

To: UHFSDR@yahoogroups.com

From: dave@...

Date: Sun, 29 Jan 2012 17:41:13 -0800

Subject: Re: [UHFSDR] TX driver

Sid:

I think a 3dB pad would help. The mmics are 50
ohm output impedance and operate well into the GHz
range. Even though the 15W amp may be 50 ohms at
the operating frequency, it may not be at the
harmonics which are present at the UHFSDR.

What amps are others using and what are your
results. I am working on a 100W amp to go with the
UHFSDR, but have not yet connected it.

Dave - WB6DHW

<http://wb6dhw.com>

On 1/29/2012 5:07 PM, Sid Boyce wrote:

TX was working fine at 100mW.

I added a 15W PA (50 ohm in/out) and saw it go
into oscillation with low output.

When I tried again barefoot the HMC482 gave no
output.

I have a supply of HMC482's on hand.

Next time I try I shall insert a 3dB pad to
see if that cures the problem.

What say Dave?

73 ... Sid.

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Rainer:

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too low at low frequency.

Either or both of the following work:

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Remove C12,C13,C14.

If you plan on using the UHFSDR both at 450
MHz and 80 or 160 Meters, the

inductor at L1 must still have a good RF
impedance at 450 MHz(ie the self

resonance frequency needs to be in the VHF
range). Yaesu, in the FT8X7 designs

that have a 5W amp that covers from 160M
thru 450 MHz use 2 inductors in series

- a 10 uH for low frequencies and something
under .1 uH for VHF/UHF where the 10

uH looks like a capacitor.

Dave - WB6DHW

<http://wb6dhw.com>

On 1/29/2011 8:31 PM, rainerfeldkamp wrote:

> Hi all

>

> After completing the UHFSDR starting
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measurements. Everything went fine so far,
apart from the MMG3H21 driver.

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> The measurements confirm Step 243 of
the assembly manual in that the MMG3H21
starts severely distorting below about 15
MHz. I am considering cutting the trace
between C13 and C14 and replacing it by an
inductor of 3.3 µH.

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> Has anybody a better idea to decrease
the lower frequency limit of the TX driver
without impairing the upper limit (ERA-5
with larger supply resistance ?).

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> VY37

>

> Rainer, DJ6OA

>

>

>

--
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560. Bandpass Filter

Yahoo group: UHFSDR
Date: 2012-01-30 16:00:26 UTC
From: Francesco Reale
Topic: 560 Message: 560

Hi, I'm intereste for the bpf filter for multiband please keep me infomed I am interested for the complete kit for a linear.
73 Francis

561. Re: Software and Si570 controllers

Yahoo group: UHFSDR
Date: 2012-01-30 18:26:48 UTC
From: Colin
Topic: 538 Message: 561

I am Using windows 7 64bit
and SRD Radio software from simon (HRD GUY)
with QRP2000 USB-Controlled Synthesizer from SDR Kits
(Si570 USB and windows 7 signed drivers)
UHFSDR works great from 1.7 mhz to about 450 mhz
Colin M0DMJ

--- In UHFSDR@yahoogroups.com, "brainerdd" <dave@...> wrote:
>
> I would like to find out what software people are using with UHFSDR. I would also like to see what people are using to control the Si570. My computers have parallel ports, but many do not. I especially would like to see the hookups for USB solutions.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>

562. RE: [UHFSDR] Re: Software and Si570 controllers

Yahoo group: UHFSDR
Date: 2012-01-30 18:39:32 UTC
From: MIKE DURKIN
Topic: 538 Message: 562

Are you using a Si570BBA?

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: m0dmj@...
Date: Mon, 30 Jan 2012 18:26:48 +0000
Subject: [UHFSDR] Re: Software and Si570 controllers

I am Using windows 7 64bit

and SRD Radio software from simon (HRD GUY)

with QRP2000 USB-Controlled Synthesizer from SDR Kits

(Si570 USB and windows 7 signed drivers)

UHFSDR works great from 1.7 mhz to about 450 mhz

Colin M0DMJ

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>

> Dave - WB6DHW

> <http://wb6dhw.com>

>

563. Re: [UHFSDR] Software and Si570 controllers

Yahoo group: UHFSDR
Date: 2012-01-30 20:45:56 UTC
From: Jim Sanford
Topic: 538 Message: 563

Larry:
Can you point to info on SDR Widget and/or PSDR?
Thanks & 73,
Jim
wb4gcs@...

On 1/29/2012 11:15 PM, w9amr@... wrote:
>
> Hi Dave
> I am using a SDR Widget soundcard/controller. OS is WinXP and software
> is PSDR v1.12. I am happy to share the interfacing to Widget info.
> Larry W9AMR
> In a message dated 1/29/2012 7:37:18 P.M. Eastern Standard Time,
> dave@... writes:
>
> I would like to find out what software people are using with
> UHFSDR. I would also like to see what people are using to control
> the Si570. My computers have parallel ports, but many do not. I
> especially would like to see the hookups for USB solutions.
>
> Dave - WB6DHW
> <http://wb6dhw.com <http://wb6dhw.com/>>
>
>

564. Re: [UHFSDR] Software and Si570 controllers

Yahoo group: UHFSDR
Date: 2012-01-30 21:49:52 UTC
From: Mathison Ott
Topic: 538 Message: 564

Christos SV1EIA

What the word on the USB2SDR and LINUX???

Mathison

On Mon, Jan 30, 2012 at 12:45 PM, Jim Sanford <wb4gcs@...> wrote:

>
>
> Larry:
> Can you point to info on SDR Widget and/or PSDR?
> Thanks & 73,
> Jim
> wb4gcs@...
>
>
>
> On 1/29/2012 11:15 PM, w9amr@... wrote:
>
>
>
> Hi Dave
>
> I am using a SDR Widget soundcard/controller. OS is WinXP and software is
> PSDR v1.12. I am happy to share the interfacing to Widget info.
>
> Larry W9AMR
>
> In a message dated 1/29/2012 7:37:18 P.M. Eastern Standard Time,
> dave@... writes:
>
>
>
> I would like to find out what software people are using with UHFSDR. I
> would also like to see what people are using to control the Si570. My
> computers have parallel ports, but many do not. I especially would like to
> see the hookups for USB solutions.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
>
>

565. Re: [UHFSDR] Software and Si570 controllers

Yahoo group: UHFSDR
Date: 2012-01-30 22:15:26 UTC
From: w9amr@aol.com
Topic: 538 Message: 565

Hi Jim

Info on the widget can be found here. _http://mobokits.stormwarning.org/_ (http://mobokits.stormwarning.org/)

There is a yahoo news group for PSDR. You can Google it. I use V1.12 with WinXP. There are many versions. If your wanting to do voice PSDR is probably the best windows program. I am a newbie to Linux. Others can recommend software for that. The Wiidget works with both OS's and I believe there are a few that are running it under Mac. I have not had great luck with Win7 yet.

Larry

In a message dated 1/30/2012 3:46:42 P.M. Eastern Standard Time, wb4gcs@amsat.org writes:

Larry:
Can you point to info on SDR Widget and/or PSDR?
Thanks & 73,
Jim
wb4gcs@... (mailto:wb4gcs@...)

On 1/29/2012 11:15 PM, _w9amr@..._ (mailto:w9amr@...) wrote:

Hi Dave

I am using a SDR Widget soundcard/controller. OS is WinXP and software is PSDR v1.12. I am happy to share the interfacing to Widget info.

Larry W9AMR

In a message dated 1/29/2012 7:37:18 P.M. Eastern Standard Time, _dave@..._ (mailto:dave@...) writes:

I would like to find out what software people are using with UHFSDR. I would also like to see what people are using to control the Si570. My computers have parallel ports, but many do not. I especially would like to see the hookups for USB solutions.

Dave - WB6DHW
<_http://wb6dhw.com_ (http://wb6dhw.com/) >

566. Re: [UHFSDR] Software and Si570 controllers

Yahoo group: UHFSDR
Date: 2012-01-30 22:36:36 UTC
From: Jim Sanford
Topic: 538 Message: 566

Thanks!

On 1/30/2012 5:15 PM, w9amr@... wrote:
>
> Hi Jim
> Info on the widget can be found here. http://mobokits.stormwarning.org/
> There is a yahoo news group for PSDR. You can Google it. I use
> V1.12 with WinXP. There are many versions. If your wanting to do
> voice PSDR is probably the best windows program. I am a newbie to
> Linux. Others can recommend software for that. The Wiidget works with
> both OS's and I believe there are a few that are running it under
> Mac. I have not had great luck with Win7 yet.
> Larry
> In a message dated 1/30/2012 3:46:42 P.M. Eastern Standard Time,
> wb4gcs@... writes:
>
> Larry:
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> Thanks & 73,
> Jim
> wb4gcs@...
>
>
> On 1/29/2012 11:15 PM, w9amr@... wrote:
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>> UHFSDR. I would also like to see what people are using to
>> control the Si570. My computers have parallel ports, but many
>> do not. I especially would like to see the hookups for USB
>> solutions.
>>
>> Dave - WB6DHW
>> <http://wb6dhw.com <http://wb6dhw.com/>>
>>
>

567. Re: [UHFSDR] Software and Si570 controllers

Yahoo group: UHFSDR
Date: 2012-01-30 23:06:02 UTC
From: Alan Hill
Topic: 538 Message: 567

I've had a widget on my system for almost a year and it is running fine
with Win7 home and linux.
73's
Alan - W6ARH
On Jan 30, 2012 2:37 PM, "Jim Sanford" <wb4gcs@...> wrote:

> **
>
>
> Thanks!
>
>
> On 1/30/2012 5:15 PM, w9amr@... wrote:
>
>
>
> Hi Jim
>
> Info on the widget can be found here. http://mobokits.stormwarning.org/
>
> There is a yahoo news group for PSDR. You can Google it. I use V1.12 with
> WinXP. There are many versions. If your wanting to do voice PSDR is
> probably the best windows program. I am a newbie to Linux. Others can
> recommend software for that. The Wiidget works with both OS's and I believe
> there are a few that are running it under Mac. I have not had great luck
> with Win7 yet.
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> Larry
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> In a message dated 1/30/2012 3:46:42 P.M. Eastern Standard Time,
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>
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> Larry:
> Can you point to info on SDR Widget and/or PSDR?
> Thanks & 73,
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> On 1/29/2012 11:15 PM, w9amr@... wrote:
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> Hi Dave
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> I am using a SDR Widget soundcard/controller. OS is WinXP and software is
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> Larry W9AMR
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> In a message dated 1/29/2012 7:37:18 P.M. Eastern Standard Time,
> dave@... writes:
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> I would like to find out what software people are using with UHFSDR. I
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> computers have parallel ports, but many do not. I especially would like to
> see the hookups for USB solutions.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
>
>

568. Re: [UHFSDR] Software and Si570 controllers

Yahoo group: UHFSDR
Date: 2012-01-30 23:15:35 UTC
From: w9amr@aol.com
Topic: 538 Message: 568

Hi Alan

Are you using Win7 64bit?

Larry W9AMR

In a message dated 1/30/2012 6:06:07 P.M. Eastern Standard Time,
alan.r.hill@... writes:

I've had a widget on my system for almost a year and it is running fine
with Win7 home and linux.
73's
Alan - W6ARH
On Jan 30, 2012 2:37 PM, "Jim Sanford" <_wb4gcs@..._
(mailto:wb4gcs@...) > wrote:

Thanks!

On 1/30/2012 5:15 PM, _w9amr@..._ (mailto:w9amr@...) wrote:

Hi Jim

Info on the widget can be found here. _http://mobokits.stormwarning.org/_
(http://mobokits.stormwarning.org/)

There is a yahoo news group for PSDR. You can Google it. I use V1.12 with
WinXP. There are many versions. If your wanting to do voice PSDR is
probably the best windows program. I am a newbie to Linux. Others can recommend
software for that. The Wiidget works with both OS's and I believe there are
a few that are running it under Mac. I have not had great luck with Win7
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hookups for USB solutions.

Dave - WB6DHW
<_http://wb6dhw.com_ (http://wb6dhw.com/) >

569. RE: [UHFSDR] Software and Si570 controllers

Yahoo group: UHFSDR
Date: 2012-01-30 23:52:56 UTC
From: The Silver Fox
Topic: 538 Message: 569

No. Unfortunately, it is 32 bit. I am using 64 bit Linux.

Alan

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of w9amr@...
Sent: Monday, January 30, 2012 3:16 PM
To: UHFSDR@...m
Subject: Re: [UHFSDR] Software and Si570 controllers

Hi Alan

Are you using Win7 64bit?

Larry W9AMR

In a message dated 1/30/2012 6:06:07 P.M. Eastern Standard Time, alan.r.hill@... writes:

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Thanks!

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Dave - WB6DHW
<http://wb6dhw.com <http://wb6dhw.com/> >

570. Re: [UHFSDR] Software and Si570 controllers

Yahoo group: UHFSDR
Date: 2012-01-31 03:06:43 UTC
From: w9amr@aol.com
Topic: 538 Message: 570

I am running 64 bit. I have a bit more learning to do!

Thanks Alan

Larry W9AMR

In a message dated 1/30/2012 6:52:59 P.M. Eastern Standard Time,
alan.r.hill@... writes:

No. Unfortunately, it is 32 bit. I am using 64 bit Linux.
Alan

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
w9amr@...
Sent: Monday, January 30, 2012 3:16 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Software and Si570 controllers

Hi Alan

Are you using Win7 64bit?

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Thanks!

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Dave - WB6DHW
<_http://wb6dhw.com_ (http://wb6dhw.com/) >

571. Re: Software and Si570 controllers

Yahoo group: UHFSDR
Date: 2012-02-01 15:22:05 UTC
From: Ed
Topic: 538 Message: 571

Dave ,

Are you thinking what I am thinking?

That spare area on the PCB for a USB interface based on the Softrock ctt with the Tiny IC and PTT isolator ?

I may well try it out in the next few days.

Regards
Ed GM3SBC

--- In UHFSDR@yahoogroups.com, w9amr@... wrote:
>
> I am running 64 bit. I have a bit more learning to do!
>
> Thanks Alan
>
> Larry W9AMR
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> In a message dated 1/30/2012 6:52:59 P.M. Eastern Standard Time,
> alan.r.hill@... writes:
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> No. Unfortunately, it is 32 bit. I am using 64 bit Linux.
> Alan
>
>
> From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
> w9amr@...
> Sent: Monday, January 30, 2012 3:16 PM
> To: UHFSDR@yahoogroups.com
> Subject: Re: [UHFSDR] Software and Si570 controllers
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> On Jan 30, 2012 2:37 PM, "Jim Sanford" <_wb4gcs@..._
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> hookups for USB solutions.
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> Dave - WB6DHW
> <_http://wb6dhw.com_ (http://wb6dhw.com/) >
>

572. Re: [UHFSDR] Re: Software and Si570 controllers

Yahoo group: UHFSDR
Date: 2012-02-01 15:26:54 UTC
From: John Greusel
Topic: 538 Message: 572

I know others have done that already because I asked that very question a few months ago. I have an unbuild USb/I2C softrock interface board kit waiting in the wings for my yet to be build UHFSDR.

John
KC9OJV

From: Ed <ed.murphy31@...>
To: UHFSDR@yahoogroups.com
Sent: Wednesday, February 1, 2012 9:22 AM
Subject: [UHFSDR] Re: Software and Si570 controllers

Dave ,

Are you thinking what I am thinking?

That spare area on the PCB for a USB interface based on the Softrock ctt with the Tiny IC and PTT isolator ?

I may well try it out in the next few days.

Regards
Ed GM3SBC

--- In UHFSDR@yahoogroups.com, w9amr@... wrote:
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> From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
> w9amr@...

> Sent: Monday, January 30, 2012 3:16 PM
> To: UHFSDR@yahoogroups.com
> Subject: Re: [UHFSDR] Software and Si570 controllers
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> Hi Alan
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> Are you using Win7 64bit?
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> I've had a widget on my system for almost a year and it is running fine
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> 73's
> Alan - W6ARH
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> On Jan 30, 2012 2:37 PM, "Jim Sanford" <_wb4gcs@..._
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> Info on the widget can be found here. _http://mobokits.stormwarning.org/_
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> Dave - WB6DHW
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573. Re: [UHFSDR] Re: Software and Si570 controllers

Yahoo group: UHFSDR
Date: 2012-02-01 20:26:11 UTC
From: Dave
Topic: 538 Message: 573

Ed:
Yes, for the next rev I am thinking of including an ATTiny85 with the
firmware used for the Softrocks.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/1/2012 7:22 AM, Ed wrote:
>
> Dave ,
>
> Are you thinking what I am thinking?
>
> That spare area on the PCB for a USB interface based on the Softrock
> ctt with the Tiny IC and PTT isolator ?
>
> I may well try it out in the next few days.
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> Regards
> Ed GM3SBC
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> [mailto:UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>] On
> Behalf Of

> > w9amr@...
> > Sent: Monday, January 30, 2012 3:16 PM
> > To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
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> > Dave - WB6DHW
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> >
>
>

574. Full Kit Availability

Yahoo group: UHFSDR
Date: 2012-02-01 22:55:59 UTC
From: The Silver Fox
Topic: 574 Message: 574

Surprise! The Si570s for the kits have arrived. Paypal monies to my email address for the kits. $194 DX and $190 US. Si570 alone is $75.

73's

Alan - W6ARH

575. FW: [MOBOKITS] Re: Howling wind subsided

Yahoo group: UHFSDR
Date: 2012-02-02 00:50:16 UTC
From: The Silver Fox
Topic: 575 Message: 575

-----Original Message-----
From: mobokits@... [mailto:mobokits@...] On Behalf
Of VK5ZAG
Sent: Wednesday, February 01, 2012 3:59 PM
To: MOBOKITS
Subject: [MOBOKITS] Re: Howling wind subsided

I made a few measurements and tests with the second 6.3/MoBo I built
and I remember disconnecting the I2c from the SR6.3 the Sis570
carried on at the previously programmed Hz and a lot of the noise
and a few of the artifacts were missing. Other of the noise
on 20m no antenna were reduced. I had meant to put some beads
and bypasses on the I2c line but the OM I built it for was in a hurry.
Since I will be using the USB2SDR in my own rig I will be
experimenting
with that. At this time I am using an FA-66 but I am to rebuild the
"box"
and incorporate the USB2SDR. Testing with the USB2SDR bread-boarded
showed good results but with low HZ pick up by the USB2SDR.
I will have to screen this unit when installed and I will then be
looking seriously
at noise abatement.

Best Regards 73 Eric VK5ZAG

On Feb 2, 3:27 am, applewiz2000 <robbr...@...> wrote:
> Hi Eric,
>
> I didn't try any any ferrite beads on the MoBo-Widget I2C cable. But
> my I2C cable is screened, as is the SR V6.3 output cable. Admittedly
> my system is rather cramped in the box, which doesn't help. I did try
> putting copper foil over the ADuM1251 area of the board, but no
> effect.
>
> Anyway the noise hump is a lot less problem than some other forms of
> spurious produced by the SR V6.3/MoBo combination.
>
> ~Rob
>
> On Jan 31, 9:40 pm, VK5ZAG <eric...@...> wrote:
>
>
>
>
>
>

>
> > Do you think that inter-shielding or a decoupling bead might help Rob.
> > 73 Eric VK5ZAG
>
> > On Feb 1, 5:29 am, applewiz2000 <robbr...@...> wrote:
>
> > > Hiya Graeme,
>
> > > The ADuM1251 has some kind of oscillator onboard that is causing the
> > > interference. With the "stack" of boards we have now, the coax comes
> > > off the SR V6.3 directly under the ADuM. It is also quite close to the
> > > RxTx switching FETs on the SR V6.3. I did try adding 1nF decoupling
> > > caps across the 1uF ones, but there no no difference.
>
> > > The TI alternative looks better, optical isolators are often a source
> > > of repeatability aggro in high speed serial data circuits. CTR varies
> > > wildly. The TI chip is about the same price as the Analog Devices one,
> > > though needs more external stuff. Having USB isolation never made much
> > > difference for me. Having link-overs would let people try both worlds.
>
> > > For the switches, I wouldn't want to admit defeat and have relays
> > > because they are too bulky. SkyWorks have some switches with max loss
> > > of 0.8dB at low frequencies. They are about 4x the price of the FST
> > > ones. I agree with the original decision that running at 200ohms is a
> > > bad idea.
>
> > > As & when there is ever a consensus behind a next-gen motherboard type
> > > system, there may be some better CMOS switches available. There is a
> > > market for them, because Analog Devs have brought out new products.
>
> > > ~Rob
>
> > > On Jan 30, 10:44 pm, Graeme ZL2APV <g...@....nz> wrote:
>
> > > > This one could be useful too.
>
> > >
>http://www.eetimes.com/design/embedded/4025023/Opto-electrical-isolat...
>
> > > > Graeme

576. Re: [UHFSDR] Full Kit Availability

Yahoo group: UHFSDR
Date: 2012-02-02 01:10:39 UTC
From: Dave
Topic: 574 Message: 576

The current qty 1 price for the Si570 from the Si Labs website is
$98! That's a very good discount.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/1/2012 2:55 PM, The Silver Fox wrote:
>
> Surprise! The Si570s for the kits have arrived. Paypal monies to my
> email address for the kits. $194 DX and $190 US. Si570 alone is $75.
>
> 73's
>
> Alan -- W6ARH
>
>
>

577. Re: [UHFSDR] Full Kit Availability

Yahoo group: UHFSDR
Date: 2012-02-02 01:36:06 UTC
From: Jim Sanford
Topic: 574 Message: 577

Dave:

I am about to order my kit. One comment I've run across is that performance is "squirreley" above about450 MHz. I'd like to run at least to 600 MHz, because I want a 10% IF for my 5.7 GHz gear.

Any insights?

Thanks & 73,
Jim
wb4gcs@...

On 2/1/2012 8:10 PM, Dave wrote:
>
> The current qty 1 price for the Si570 from the Si Labs website is
> $98! That's a very good discount.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 2/1/2012 2:55 PM, The Silver Fox wrote:
>
>> Surprise! The Si570s for the kits have arrived. Paypal monies to my
>> email address for the kits. $194 DX and $190 US. Si570 alone is $75.
>>
>> 73's
>>
>> Alan -- W6ARH
>>
>>
>
>

578. RE: [UHFSDR] Full Kit Availability

Yahoo group: UHFSDR
Date: 2012-02-02 01:50:43 UTC
From: MIKE DURKIN
Topic: 574 Message: 578

Was that with the Si570BBA ,BAC, or BAA?
I would think a good heat mass would help temp drift...

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: wb4gcs@...
Date: Wed, 1 Feb 2012 20:36:06 -0500
Subject: Re: [UHFSDR] Full Kit Availability

Dave:

I am about to order my kit. One comment I've run across is that
performance is "squirreley" above about450 MHz. I'd like to run at
least to 600 MHz, because I want a 10% IF for my 5.7 GHz gear.

Any insights?

Thanks & 73,

Jim

wb4gcs@amsat.org

On 2/1/2012 8:10 PM, Dave wrote:

The current qty 1 price for the Si570 from the Si Labs
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Dave - WB6DHW

<http://wb6dhw.com>

On 2/1/2012 2:55 PM, The Silver Fox wrote:

Surprise! The Si570s for the
kits have arrived. Paypal monies to my email
address for the kits. $194 DX and $190 US. Si570
alone is $75.

73’s
Alan – W6ARH

579. Re: [UHFSDR] Full Kit Availability

Yahoo group: UHFSDR
Date: 2012-02-02 02:05:50 UTC
From: Dave
Topic: 574 Message: 579

Jim:
The only time I have used it above 450 MHz was to listen to a TV translator audio. Seemed to work OK. I think it was CH 48.
The Si570 noise is naturally worse the higher the freq., but still good enough for a high freq IF. The Si570 does drift somewhat with temp changes. That may be where that comment comes from. Non-50 ohm termination of the 2 mmics might cause oscillations or other problems.
The DBm's are sensitive to the odd harmonics, so a cell phone at 1.8 GHz could cause interference if the LO is near 600 MHz. Wifi at 2.4 GHz could cause interference if the LO is near 480MHz. The solution, of course, is a BPF on the input.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/1/2012 5:36 PM, Jim Sanford wrote:
>
> Dave:
>
> I am about to order my kit. One comment I've run across is that
> performance is "squirreley" above about450 MHz. I'd like to run at
> least to 600 MHz, because I want a 10% IF for my 5.7 GHz gear.
>
> Any insights?
>
> Thanks & 73,
> Jim
> wb4gcs@...
>

580. RE: [UHFSDR] Full Kit Availability

Yahoo group: UHFSDR
Date: 2012-02-02 02:07:51 UTC
From: The Silver Fox
Topic: 574 Message: 580

The 570 that I am selling with the kits is AAA. There is one better grade
but it is VERY expensive.

73's

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
MIKE DURKIN
Sent: Wednesday, February 01, 2012 5:51 PM
To: uhfsdr@yahoogroups.com
Subject: RE: [UHFSDR] Full Kit Availability

Was that with the Si570BBA ,BAC, or BAA?
I would think a good heat mass would help temp drift...

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: wb4gcs@...
Date: Wed, 1 Feb 2012 20:36:06 -0500
Subject: Re: [UHFSDR] Full Kit Availability

Dave:

I am about to order my kit. One comment I've run across is that performance
is "squirreley" above about450 MHz. I'd like to run at least to 600 MHz,
because I want a 10% IF for my 5.7 GHz gear.

Any insights?

Thanks & 73,
Jim
wb4gcs@...

On 2/1/2012 8:10 PM, Dave wrote:

The current qty 1 price for the Si570 from the Si Labs website is $98!
That's a very good discount.

Dave - WB6DHW
<http://wb6dhw.com> <http://wb6dhw.com>

On 2/1/2012 2:55 PM, The Silver Fox wrote:

Surprise! The Si570s for the kits have arrived. Paypal monies to my email
address for the kits. $194 DX and $190 US. Si570 alone is $75.

73's

Alan - W6ARH

581. Re: [UHFSDR] Full Kit Availability

Yahoo group: UHFSDR
Date: 2012-02-02 02:11:56 UTC
From: Jim Sanford
Topic: 574 Message: 581

Dave:
Thanks.
I will probably do things to temp stabilize the Si570 and the whole board.
I plan to do the BPF at RF and diplexers downstream of the mixers.
Hopefully that will take care of the odd harmonics, etc.

Good performance at CH 48 (680 MHz) would exceed my nees.

Thanks & 73,
Jim
wb4gcs@...

On 2/1/2012 9:05 PM, Dave wrote:
>
> Jim:
> The only time I have used it above 450 MHz was to listen to a TV
> translator audio. Seemed to work OK. I think it was CH 48.
> The Si570 noise is naturally worse the higher the freq., but still
> good enough for a high freq IF. The Si570 does drift somewhat with
> temp changes. That may be where that comment comes from. Non-50 ohm
> termination of the 2 mmics might cause oscillations or other
> problems. The DBm's are sensitive to the odd harmonics, so a cell
> phone at 1.8 GHz could cause interference if the LO is near 600 MHz.
> Wifi at 2.4 GHz could cause interference if the LO is near 480MHz.
> The solution, of course, is a BPF on the input.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
>
> On 2/1/2012 5:36 PM, Jim Sanford wrote:
>
>> Dave:
>>
>> I am about to order my kit. One comment I've run across is that
>> performance is "squirreley" above about450 MHz. I'd like to run at
>> least to 600 MHz, because I want a 10% IF for my 5.7 GHz gear.
>>
>> Any insights?
>>
>> Thanks & 73,
>> Jim
>> wb4gcs@...
>>
>
>

582. Re: [UHFSDR] Full Kit Availability

Yahoo group: UHFSDR
Date: 2012-02-02 02:13:24 UTC
From: Dave
Topic: 574 Message: 582

Mike:
The Si570 supplied with Alan's kit is the AAA version. I don't know
what the person reporting squirrely operation above 450 was using.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/1/2012 5:50 PM, MIKE DURKIN wrote:
>
> Was that with the Si570BBA ,BAC, or BAA?
> I would think a good heat mass would help temp drift...
>
> Mike KC7NOA
>
> ---
> To: UHFSDR@yahoogroups.com
> From: wb4gcs@...
> Date: Wed, 1 Feb 2012 20:36:06 -0500
> Subject: Re: [UHFSDR] Full Kit Availability
>
> Dave:
>
> I am about to order my kit. One comment I've run across is that
> performance is "squirreley" above about450 MHz. I'd like to run at
> least to 600 MHz, because I want a 10% IF for my 5.7 GHz gear.
>
> Any insights?
>
> Thanks & 73,
> Jim
> wb4gcs@... <mailto:wb4gcs@...>
>
> On 2/1/2012 8:10 PM, Dave wrote:
>
> The current qty 1 price for the Si570 from the Si Labs website
> is $98! That's a very good discount.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 2/1/2012 2:55 PM, The Silver Fox wrote:
>
> Surprise! The Si570s for the kits have arrived. Paypal
> monies to my email address for the kits. $194 DX and $190
> US. Si570 alone is $75.

>
> 73?s
>
> Alan ? W6ARH
>
>
>
>

583. RE: [UHFSDR] Full Kit Availability

Yahoo group: UHFSDR
Date: 2012-02-02 02:18:55 UTC
From: MIKE DURKIN
Topic: 574 Message: 583

Oh ... missed they were the lvepcl (memory typo)

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Wed, 1 Feb 2012 18:13:24 -0800
Subject: Re: [UHFSDR] Full Kit Availability

Mike:

The Si570 supplied with Alan's kit is the AAA version. I don't know what the person reporting squirrely operation above 450 was using.

Dave - WB6DHW

<http://wb6dhw.com>

On 2/1/2012 5:50 PM, MIKE DURKIN wrote:

Was that with the Si570BBA ,BAC, or BAA?

I would think a good heat mass would help temp drift...

Mike KC7NOA

To: UHFSDR@yahoogroups.com

From: wb4gcs@amsat.org

Date: Wed, 1 Feb 2012 20:36:06 -0500

Subject: Re: [UHFSDR] Full Kit Availability

Dave:

I am about to order my kit. One comment I've run across is that performance is "squirreley" above about450 MHz. I'd like to run at least to 600 MHz, because I want a 10% IF for my 5.7 GHz gear.

Any insights?

Thanks & 73,

Jim

wb4gcs@...

On 2/1/2012 8:10 PM, Dave wrote:

The current qty 1 price for the Si570 from
the Si Labs website is $98! That's a very
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On 2/1/2012 2:55 PM, The Silver Fox wrote:

Surprise! The
Si570s for the kits have arrived.
Paypal monies to my email address for
the kits. $194 DX and $190 US. Si570
alone is $75.

73’s
Alan – W6ARH

584. Re: Individual Digi-Key order

Yahoo group: UHFSDR
Date: 2012-02-02 14:59:26 UTC
From: Michael
Topic: 251 Message: 584

My problem seems to be searching for public Bom's...!!!

--- In UHFSDR@yahoogroups.com, dave <dave@...> wrote:
>
> I am not sure. It is BOM # 31700 and is under Bluebird Originals.
> Otherwise, you can upload the spreadsheet available on my for_sale page.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 7/26/2011 2:52 AM, Simon Eatough wrote:
> >
> > Hi there
> >
> > Just wondering how to access that public bom on digikey.
> > Thanks
> >
> > Simon
> > ZL2BRG
> >
> > On Tue, Jul 26, 2011 at 3:49 AM, nwplouff <nwplouff@...
> > <mailto:nwplouff@...>> wrote:
> >
> >
> >
> > There's a public BOM at Digi-Key? I did not know that. I ordered from the
> > BOM in the files section of this Yahoo group. Ah, well, live and learn...
> >
> > As mentioned, still had to order two items from Mouser.
> >
> > By the way, in no way was my posting intended to disparage Alan, the
> > Silver Fox. I think he's doing a great service to UHFSDR builders. After
> > wading through the details of making a Digi-Key order, I'd say he's not
> > charging nearly enough for his time.
> >
> > Wes AC8JF
> >
> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, dave
> > <dave@> wrote:
> > >
> > > Did you order from the BOM that is on my webpage or from the public BOM on
> >
> > > Digikey (BOM # 31700)? I just created an order from the DigiKey BOM and all
> > > parts were available. The total came to 31.13. Should be 44 different part
> > > numbers.

> >
> >
> >
> >
> >
> > No virus found in this incoming message.
> > Checked by AVG - www.avg.com
> > Version: 9.0.901 / Virus Database: 271.1.1/3789 - Release Date: 07/25/11 23:35:00
> >
>

585. Re: [UHFSDR] Re: Individual Digi-Key order

Yahoo group: UHFSDR
Date: 2012-02-02 21:38:14 UTC
From: Dave
Topic: 251 Message: 585

I think you have to create a log in ion Digikey and sign in to get
access to the BOM's.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/2/2012 6:59 AM, Michael wrote:
>
> My problem seems to be searching for public Bom's...!!!
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, dave
> <dave@...> wrote:
> >
> > I am not sure. It is BOM # 31700 and is under Bluebird Originals.
> > Otherwise, you can upload the spreadsheet available on my for_sale page.
> >
> > Dave - WB6DHW
> > <http://wb6dhw.com>
> >
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> > >
> > > Hi there
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> > > Just wondering how to access that public bom on digikey.
> > > Thanks
> > >
> > > Simon
> > > ZL2BRG
> > >
> > > On Tue, Jul 26, 2011 at 3:49 AM, nwplouff <nwplouff@...
> > > <mailto:nwplouff@...>> wrote:
> > >
> > >
> > >
> > > There's a public BOM at Digi-Key? I did not know that. I ordered
> from the
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> > > As mentioned, still had to order two items from Mouser.
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> > > Silver Fox. I think he's doing a great service to UHFSDR builders.
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> > > wading through the details of making a Digi-Key order, I'd say

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> > >
> > > Wes AC8JF
> > >
> > > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> <mailto:UHFSDR%40yahoogroups.com>, dave
> > > <dave@> wrote:
> > > >
> > > > Did you order from the BOM that is on my webpage or from the
> public BOM on
> > >
> > > > Digikey (BOM # 31700)? I just created an order from the DigiKey
> BOM and all
> > > > parts were available. The total came to 31.13. Should be 44
> different part
> > > > numbers.r Group
> <http://groups.yahoo.com/group/UHFSDR;_ylc=X3oDMTJmZjMzOTBlBF9TAzk3MzU5NzE0BGdycElkAzcyO
DUzODU3BGdycHNwSWQDMTcwNTA2MzEwOARzZWMDdnRsBHNsawN2Z2hwBHN0aW1lAzEzMjgxOTQ3Njg->
>
> Yahoo! Groups
> <http://groups.yahoo.com/;_ylc=X3oDMTJlcDBmMWp1BF9TAzk3MzU5NzE0BGdycElkAzcyODUzODU3BGdyc
HNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNnZnAEc3RpbWUDMTMyODE5NDc2OA-->
>
> Switch to: Text-Only
> <mailto:UHFSDR-traditional@yahoogroups.com?subject=Change%20Delivery%20Format:%20Traditi
onal>,
> Daily Digest
> <mailto:UHFSDR-digest@yahoogroups.com?subject=Email%20Delivery:%20Digest>
> . Unsubscribe
> <mailto:UHFSDR-unsubscribe@yahoogroups.com?subject=Unsubscribe> .
> Terms of Use <http://docs.yahoo.com/info/terms/>
> .
>
>

586. RE: [UHFSDR] Re: Individual Digi-Key order

Yahoo group: UHFSDR
Date: 2012-02-02 22:05:14 UTC
From: MIKE DURKIN
Topic: 251 Message: 586

I do ... and did.

No idea how to find the public BOM ...

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Thu, 2 Feb 2012 13:38:14 -0800
Subject: Re: [UHFSDR] Re: Individual Digi-Key order

I think you have to create a log in ion Digikey and sign in to get
access to the BOM's.

Dave - WB6DHW

<http://wb6dhw.com>

On 2/2/2012 6:59 AM, Michael wrote:

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Bluebird Originals.

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>

> Dave - WB6DHW

> <http://wb6dhw.com>

>

> On 7/26/2011 2:52 AM, Simon Eatough wrote:

> >

> > Hi there

> >

> > Just wondering how to access that public bom on
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> > Thanks

> >

> > Simon

> > ZL2BRG

> >

> > On Tue, Jul 26, 2011 at 3:49 AM, nwplouff
<nwplouff@...

> > <mailto:nwplouff@...>> wrote:

> >

> >

> >

> > There's a public BOM at Digi-Key? I did not know
that. I ordered from the

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> >

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> > Wes AC8JF

> >

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> > <dave@> wrote:

> > >

> > > Did you order from the BOM that is on my
webpage or from the public BOM on

> >

> > > Digikey (BOM # 31700)? I just created an
order from the DigiKey BOM and all

> > > parts were available. The total came to
31.13. Should be 44 different part

> > > numbers.r Group

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.

587. RE: [UHFSDR] Re: Individual Digi-Key order

Yahoo group: UHFSDR
Date: 2012-02-02 22:46:43 UTC
From: MIKE DURKIN
Topic: 251 Message: 587

Does this link work for anyone else?

http://sales.digikey.com/scripts/ru.dll?action=pb_view&pb_glue=1015502

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Thu, 2 Feb 2012 13:38:14 -0800
Subject: Re: [UHFSDR] Re: Individual Digi-Key order

I think you have to create a log in ion Digikey and sign in to get
access to the BOM's.

Dave - WB6DHW

<http://wb6dhw.com>

On 2/2/2012 6:59 AM, Michael wrote:

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>

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> Otherwise, you can upload the spreadsheet available
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>

> Dave - WB6DHW

> <http://wb6dhw.com>

>

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> >

> > Hi there

> >

> > Just wondering how to access that public bom on
digikey.

> > Thanks

> >

> > Simon

> > ZL2BRG

> >

> > On Tue, Jul 26, 2011 at 3:49 AM, nwplouff
<nwplouff@...

> > <mailto:nwplouff@...>> wrote:

> >

> >

> >

> > There's a public BOM at Digi-Key? I did not know
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> > BOM in the files section of this Yahoo group.
Ah, well, live and learn...

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> > As mentioned, still had to order two items from
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> >

> > By the way, in no way was my posting intended to
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> > Silver Fox. I think he's doing a great service
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> > wading through the details of making a Digi-Key
order, I'd say he's not

> > charging nearly enough for his time.

> >

> > Wes AC8JF

> >

> > --- In UHFSDR@yahoogroups.com
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> > <dave@> wrote:

> > >

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webpage or from the public BOM on

> >

> > > Digikey (BOM # 31700)? I just created an
order from the DigiKey BOM and all

> > > parts were available. The total came to
31.13. Should be 44 different part

> > > numbers.r Group

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.

588. Re: [UHFSDR] Re: Individual Digi-Key order

Yahoo group: UHFSDR
Date: 2012-02-02 23:29:39 UTC
From: Dave
Topic: 251 Message: 588

Mike:
Try this link
<https://ordering.digikey.com/RegisteredUser/BOMBillOfMaterials.aspx?path=1&exist=1&id=537
28
<https://ordering.digikey.com/RegisteredUser/BOMBillOfMaterials.aspx?path=1&exist=1&id=537
28>>

Dave - WB6DHW
<http://wb6dhw.com>

On 2/2/2012 2:46 PM, MIKE DURKIN wrote:
>
> Does this link work for anyone else?
>
> http://sales.digikey.com/scripts/ru.dll?action=pb_view&pb_glue=1015502
>
> Mike KC7NOA
>
> ---
>

589. Re: [UHFSDR] Re: Individual Digi-Key order

Yahoo group: UHFSDR
Date: 2012-02-02 23:33:33 UTC
From: Dave
Topic: 251 Message: 589

Oops. That one is the BPF. The UHFSDR is
<https://ordering.digikey.com/RegisteredUser/BOMBillOfMaterials.aspx?path=1&exist=1&id=317
00
<https://ordering.digikey.com/RegisteredUser/BOMBillOfMaterials.aspx?path=1&exist=1&id=317
00>>

On 2/2/2012 3:29 PM, Dave wrote:
>
> Mike:
> Try this link
> <https://ordering.digikey.com/RegisteredUser/BOMBillOfMaterials.aspx?path=1&exist=1&id=5
3728
> <https://ordering.digikey.com/RegisteredUser/BOMBillOfMaterials.aspx?path=1&exist=1&id=5
3728>>
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 2/2/2012 2:46 PM, MIKE DURKIN wrote:
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>> Does this link work for anyone else?
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>> http://sales.digikey.com/scripts/ru.dll?action=pb_view&pb_glue=1015502
>>
>> Mike KC7NOA
>>
>> ---
>>
>
>

590. RE: [UHFSDR] Re: Individual Digi-Key order

Yahoo group: UHFSDR
Date: 2012-02-02 23:43:25 UTC
From: MIKE DURKIN
Topic: 251 Message: 590

Erred ... im looking for the bandpass filter ...

I have another full UHFSDR and QRP2000 to controlle the Si570BBA....

Might order 2 BPF .... depends on cost.

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Thu, 2 Feb 2012 15:33:33 -0800
Subject: Re: [UHFSDR] Re: Individual Digi-Key order

Oops. That one is the BPF. The UHFSDR is

<https://ordering.digikey.com/RegisteredUser/BOMBillOfMaterials.aspx?path=1&exist=1&id=31700>

On 2/2/2012 3:29 PM, Dave wrote:

Mike:

Try this link

<https://ordering.digikey.com/RegisteredUser/BOMBillOfMaterials.aspx?path=1&exist=1&id=53728>

Dave - WB6DHW

<http://wb6dhw.com>

On 2/2/2012 2:46 PM, MIKE DURKIN wrote:

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http://sales.digikey.com/scripts/ru.dll?action=pb_view&pb_glue=1015502

Mike KC7NOA

591. RE: [UHFSDR] Re: Individual Digi-Key order

Yahoo group: UHFSDR
Date: 2012-02-02 23:54:54 UTC
From: The Silver Fox
Topic: 251 Message: 591

Doesn't work for me. It just puts me into the BOM manager screen where I can make or view my own.

73's

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Dave
Sent: Thursday, February 02, 2012 3:34 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: Individual Digi-Key order

Oops. That one is the BPF. The UHFSDR is
<https://ordering.digikey.com/RegisteredUser/BOMBillOfMaterials.aspx?path=1
<https://ordering.digikey.com/RegisteredUser/BOMBillOfMaterials.aspx?path=1&
exist=1&id=31700> &exist=1&id=31700>

On 2/2/2012 3:29 PM, Dave wrote:

Mike:
Try this link
<https://ordering.digikey.com/RegisteredUser/BOMBillOfMaterials.aspx?path=1
<https://ordering.digikey.com/RegisteredUser/BOMBillOfMaterials.aspx?path=1&
exist=1&id=53728> &exist=1&id=53728>

Dave - WB6DHW
<http://wb6dhw.com> <http://wb6dhw.com>

On 2/2/2012 2:46 PM, MIKE DURKIN wrote:

Does this link work for anyone else?

http://sales.digikey.com/scripts/ru.dll?action=pb_view
<http://sales.digikey.com/scripts/ru.dll?action=pb_view&pb_glue=1015502>
&pb_glue=1015502

Mike KC7NOA

---

592. RE: [UHFSDR] Re: Individual Digi-Key order

Yahoo group: UHFSDR
Date: 2012-02-02 23:55:04 UTC
From: MIKE DURKIN
Topic: 251 Message: 592

How about a current XML for caps & inductors ....

Mike KC7NOA

To: uhfsdr@yahoogroups.com
From: Patriot121@...
Date: Thu, 2 Feb 2012 15:43:25 -0800
Subject: RE: [UHFSDR] Re: Individual Digi-Key order

Erred ... im looking for the bandpass filter ...

I have another full UHFSDR and QRP2000 to controlle the Si570BBA....

Might order 2 BPF .... depends on cost.

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Thu, 2 Feb 2012 15:33:33 -0800
Subject: Re: [UHFSDR] Re: Individual Digi-Key order

Oops. That one is the BPF. The UHFSDR is

<https://ordering.digikey.com/RegisteredUser/BOMBillOfMaterials.aspx?path=1&exist=1&id=31700>

On 2/2/2012 3:29 PM, Dave wrote:

Mike:

Try this link

<https://ordering.digikey.com/RegisteredUser/BOMBillOfMaterials.aspx?path=1&exist=1&id=53728>

Dave - WB6DHW

<http://wb6dhw.com>

On 2/2/2012 2:46 PM, MIKE DURKIN wrote:

Does this link work for anyone else?

http://sales.digikey.com/scripts/ru.dll?action=pb_view&pb_glue=1015502

Mike KC7NOA

593. RE: [UHFSDR] Re: Individual Digi-Key order

Yahoo group: UHFSDR
Date: 2012-02-02 23:56:51 UTC
From: MIKE DURKIN
Topic: 251 Message: 593

Yea ... me too ....

Honestly digikey needs to make this easyer! !!!
I even made that comment to them .... hope they listen..

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: alan.r.hill@...
Date: Thu, 2 Feb 2012 15:54:54 -0800
Subject: RE: [UHFSDR] Re: Individual Digi-Key order

Doesn't work for me. It just puts me into the BOM manager screen where I can make or view my own.
73'sAlan – W6ARH From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Dave
Sent: Thursday, February 02, 2012 3:34 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: Individual Digi-Key order Oops. That one is the BPF. The UHFSDR is
<https://ordering.digikey.com/RegisteredUser/BOMBillOfMaterials.aspx?path=1&exist=1&id=31700>

On 2/2/2012 3:29 PM, Dave wrote:
Mike:
Try this link
<https://ordering.digikey.com/RegisteredUser/BOMBillOfMaterials.aspx?path=1&exist=1&id=53728>

Dave - WB6DHW
<http://wb6dhw.com>

On 2/2/2012 2:46 PM, MIKE DURKIN wrote:
Does this link work for anyone else?

http://sales.digikey.com/scripts/ru.dll?action=pb_view&pb_glue=1015502

Mike KC7NOA

594. Re: [UHFSDR] Re: Individual Digi-Key order

Yahoo group: UHFSDR
Date: 2012-02-03 01:45:44 UTC
From: Dave
Topic: 251 Message: 594

MIke:
I will download the Digikey BOM's and post them. Then you can just upload them into the BOM maker on Digikey.
Digikey changed their BOM maker 2 or 3 years ago. Apparantly only those with the login ID of the creater can access the BOM even though it says "Public". I will have to ask Digikey about that.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/2/2012 3:55 PM, MIKE DURKIN wrote:
>
> How about a current XML for caps & inductors ....
>
> Mike KC7NOA
>
> ---
> To: uhfsdr@yahoogroups.com
> From: Patriot121@...
> Date: Thu, 2 Feb 2012 15:43:25 -0800
> Subject: RE: [UHFSDR] Re: Individual Digi-Key order
>
> Erred ... im looking for the bandpass filter ...
>
> I have another full UHFSDR and QRP2000 to controlle the Si570BBA....
>
> Might order 2 BPF .... depends on cost.
>
> Mike KC7NOA
>
> ---
>
> Yahoo! Groups
> <http://groups.yahoo.com/;_ylc=X3oDMTJlZmMyam8wBF9TAzk3NDc2NTkwBGdycElkAzcyODUzODU3BGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNnZnAEc3RpbWUDMTMyODIyNjkwNg-->
>
> Switch to: Text-Only
> <mailto:UHFSDR-traditional@yahoogroups.com?subject=Change%20Delivery%20Format:%20Traditional>,
> Daily Digest
> <mailto:UHFSDR-digest@yahoogroups.com?subject=Email%20Delivery:%20Digest>
> ? Unsubscribe
> <mailto:UHFSDR-unsubscribe@yahoogroups.com?subject=Unsubscribe> ?
> Terms of Use <http://docs.yahoo.com/info/terms/>
>

> .
>
>

595. New file uploaded to UHFSDR

Yahoo group: UHFSDR
Date: 2012-02-03 04:15:01 UTC
From: UHFSDR@yahoogroups.com
Topic: 2 Message: 595

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the UHFSDR
group.

File : /Digikey_BPF.xls
Uploaded by : brainerdd <dave@...>
Description : BPF Digikey XLS file for upload to Digikey BOM

You can access this file at the URL:
http://groups.yahoo.com/group/UHFSDR/files/Digikey_BPF.xls

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

brainerdd <dave@...>

596. New file uploaded to UHFSDR

Yahoo group: UHFSDR
Date: 2012-02-03 04:23:46 UTC
From: UHFSDR@yahoogroups.com
Topic: 2 Message: 596

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the UHFSDR
group.

File : /Digikey_upload
Uploaded by : brainerdd <dave@...>
Description : Instructions for uploading file to Digikey

You can access this file at the URL:
http://groups.yahoo.com/group/UHFSDR/files/Digikey_upload

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

brainerdd <dave@...>

597. Re: Individual Digi-Key order

Yahoo group: UHFSDR
Date: 2012-02-03 04:26:23 UTC
From: Dave
Topic: 251 Message: 597

I just had an online chat with Digikey. Seems you have to have the same customer # to have access to the BOM. I am not going to give out my customer #. She said she would get back to me tomorrow. Seems stupid to me. I pointed out there are 10's to 100's of thousands of experimenters and hams out there. I also added that Mouser has true public BOMs.
In the meantime, I will download the BOM and post it as a XLS file that can be re-uploaded to Digikey. Don't think they thought that people sell PCB's and partial kits and want their customers to easily be able to order the parts from Digikey. Seems that would be a win for Digikey and for use who sell PCB's and partial kits.

Dave - WB6DHW
<http://wb6dhw.com>

598. Daves BPF

Yahoo group: UHFSDR
Date: 2012-02-04 19:53:15 UTC
From: MIKE DURKIN
Topic: 598 Message: 598

Im curious where you got/get t20-6 and FT23-61 toroids for the bandpass filter?

Mike KC7NOA

599. Re: [UHFSDR] Daves BPF

Yahoo group: UHFSDR
Date: 2012-02-04 20:13:57 UTC
From: Jeff Gray
Topic: 598 Message: 599

The best supplier I know of for torroids and related items is at
https://www.amidoncorp.com

On Sat, Feb 4, 2012 at 2:53 PM, MIKE DURKIN <Patriot121@msn.com> wrote:

> **
>
>
> Im curious where you got/get t20-6 and FT23-61 toroids for the bandpass
> filter?
>
> Mike KC7NOA
>
>
>

600. Re: [UHFSDR] Daves BPF

Yahoo group: UHFSDR
Date: 2012-02-04 20:28:22 UTC
From: Larry
Topic: 598 Message: 600

kitsandparts.com should have them.

Larry
-----Original Message-----
From: MIKE DURKIN <Patriot121@...>
Sender: UHFSDR@yahoogroups.com
Date: Sat, 4 Feb 2012 11:53:15
To: <uhfsdr@yahoogroups.com>
Reply-To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Daves BPF

Im curious where you got/get t20-6 and FT23-61 toroids for the bandpass filter?

Mike KC7NOA

601. Re: [UHFSDR] Daves BPF

Yahoo group: UHFSDR
Date: 2012-02-04 20:39:35 UTC
From: Dave
Topic: 598 Message: 601

Not listed on the kitsandparts.com site. Amidon does have them.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/4/2012 12:28 PM, Larry wrote:
>
> kitsandparts.com should have them.
>
> Larry
>
> ----------
> *From: * MIKE DURKIN <Patriot121@...>
> *Sender: * UHFSDR@yahoogroups.com
> *Date: *Sat, 4 Feb 2012 11:53:15 -0800
> *To: *<uhfsdr@yahoogroups.com>
> *ReplyTo: * UHFSDR@yahoogroups.com
> *Subject: *[UHFSDR] Daves BPF
>
> Im curious where you got/get t20-6 and FT23-61 toroids for the
> bandpass filter?
>
> Mike KC7NOA
>

602. RE: [UHFSDR] Daves BPF

Yahoo group: UHFSDR
Date: 2012-02-04 22:46:24 UTC
From: MIKE DURKIN
Topic: 598 Message: 602

Ft23-61 are 0.50 each and t20-6 are 0.40 each ... guess is more cost effective just to get the SMD inductors.....

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Sat, 4 Feb 2012 12:39:35 -0800
Subject: Re: [UHFSDR] Daves BPF

Not listed on the kitsandparts.com site. Amidon does have them.

Dave - WB6DHW

<http://wb6dhw.com>

On 2/4/2012 12:28 PM, Larry wrote:

kitsandparts.com should have them.

Larry

From: MIKE DURKIN <Patriot121@...>

Sender: UHFSDR@yahoogroups.com

Date: Sat, 4 Feb 2012 11:53:15 -0800
To: <uhfsdr@yahoogroups.com>
ReplyTo: UHFSDR@yahoogroups.com

Subject: [UHFSDR] Daves BPF

Im curious where you got/get t20-6 and
FT23-61 toroids for the bandpass filter?

Mike KC7NOA

603. RE: [UHFSDR] Daves BPF

Yahoo group: UHFSDR
Date: 2012-02-04 22:51:23 UTC
From: Kees & Sandy
Topic: 598 Message: 603
Attachments: 2 described; binary payloads are missing from this source WARC

```
[ Attachment content not displayed ]
```

604. RE: [UHFSDR] Daves BPF

Yahoo group: UHFSDR
Date: 2012-02-04 23:00:46 UTC
From: MIKE DURKIN
Topic: 598 Message: 604

I wouldn't know ... would toroids have higher Q?(im thinking yes)

To: UHFSDR@yahoogroups.com
From: windy10605@...
Date: Sat, 4 Feb 2012 22:51:23 +0000
Subject: RE: [UHFSDR] Daves BPF

You also have to compare the "Q" difference if you care about the weak signals.

73 Kees K5BCQ

---------- Original Message ----------
From: MIKE DURKIN <Patriot121@...>
To: <uhfsdr@yahoogroups.com>
Subject: RE: [UHFSDR] Daves BPF
Date: Sat, 4 Feb 2012 14:46:24 -0800

Ft23-61 are 0.50 each and t20-6 are 0.40 each ... guess is more cost effective just to get the SMD inductors.....

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Sat, 4 Feb 2012 12:39:35 -0800
Subject: Re: [UHFSDR] Daves BPF

Not listed on the kitsandparts.com site. Amidon does have them.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/4/2012 12:28 PM, Larry wrote:

kitsandparts.com should have them.

Larry

From: MIKE DURKIN <Patriot121@...>
Sender: UHFSDR@yahoogroups.com
Date: Sat, 4 Feb 2012 11:53:15 -0800
To: <uhfsdr@yahoogroups.com>
ReplyTo: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Daves BPF

Im curious where you got/get t20-6 and FT23-61 toroids for the bandpass filter?

Mike KC7NOA

605. RE: [UHFSDR] Daves BPF

Yahoo group: UHFSDR
Date: 2012-02-04 23:02:33 UTC
From: Kees & Sandy
Topic: 598 Message: 605
Attachments: 2 described; binary payloads are missing from this source WARC

```
[ Attachment content not displayed ]
```

606. Re: [UHFSDR] Daves BPF

Yahoo group: UHFSDR
Date: 2012-02-04 23:31:01 UTC
From: Dave
Topic: 598 Message: 606

When a BPF was build with toroids it had lower loss than the smd
toroids. So, the Q must have been higher.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/4/2012 3:02 PM, Kees & Sandy wrote:
>
> I'm thinking you are thinking correctly.
>
> 73 Kees K5BCQ
>
> ---------- Original Message ----------
> From: MIKE DURKIN <Patriot121@...>
> To: <uhfsdr@yahoogroups.com>
> Subject: RE: [UHFSDR] Daves BPF
> Date: Sat, 4 Feb 2012 15:00:46 -0800
>
> I wouldn't know ... would toroids have higher Q?(im thinking yes)
>
> ---
> To: UHFSDR@yahoogroups.com
> From: windy10605@...
> Date: Sat, 4 Feb 2012 22:51:23 +0000
> Subject: RE: [UHFSDR] Daves BPF
>
> You also have to compare the "Q" difference if you care about the weak
> signals.
> 73 Kees K5BCQ
>
> ---------- Original Message ----------
> From: MIKE DURKIN <Patriot121@...>
> To: <uhfsdr@yahoogroups.com>
> Subject: RE: [UHFSDR] Daves BPF
> Date: Sat, 4 Feb 2012 14:46:24 -0800
>
> Ft23-61 are 0.50 each and t20-6 are 0.40 each ... guess is more cost
> effective just to get the SMD inductors.....
>
> Mike KC7NOA
>
> ---
> To: UHFSDR@yahoogroups.com
> From: dave@...
> Date: Sat, 4 Feb 2012 12:39:35 -0800

> Subject: Re: [UHFSDR] Daves BPF
>
> Not listed on the kitsandparts.com site. Amidon does have them.
>
> Dave - WB6DHW
> <http://wb6dhw.com> <http://wb6dhw.com/>
>
> On 2/4/2012 12:28 PM, Larry wrote:
>
> kitsandparts.com should have them.
>
> Larry
>
> ---
> *From: *MIKE DURKIN <Patriot121@...> <mailto:Patriot121@...>
> *Sender: *UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> *Date: *Sat, 4 Feb 2012 11:53:15 -0800
> *To: *<uhfsdr@yahoogroups.com> <mailto:uhfsdr@yahoogroups.com>
> *ReplyTo: *UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> *Subject: *[UHFSDR] Daves BPF
>
>
> Im curious where you got/get t20-6 and FT23-61 toroids for the
> bandpass filter?
>
> Mike KC7NOA
>
>
>
>
>
>

607. RE: [UHFSDR] Daves BPF

Yahoo group: UHFSDR
Date: 2012-02-05 00:04:09 UTC
From: MIKE DURKIN
Topic: 598 Message: 607

At what db difference?

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Sat, 4 Feb 2012 15:31:01 -0800
Subject: Re: [UHFSDR] Daves BPF

When a BPF was build with toroids it had lower loss than the smd
toroids. So, the Q must have been higher.

Dave - WB6DHW

<http://wb6dhw.com>

On 2/4/2012 3:02 PM, Kees & Sandy wrote:

I'm thinking you are thinking correctly.

73 Kees K5BCQ

---------- Original Message ----------

From: MIKE DURKIN <Patriot121@...>

To: <uhfsdr@yahoogroups.com>

Subject: RE: [UHFSDR] Daves BPF

Date: Sat, 4 Feb 2012 15:00:46 -0800

I wouldn't know ... would toroids have
higher Q?(im thinking yes)

To: UHFSDR@yahoogroups.com

From: windy10605@...

Date: Sat, 4 Feb 2012 22:51:23 +0000

Subject: RE: [UHFSDR] Daves BPF

You also have to compare the "Q" difference if
you care about the weak signals.

73 Kees K5BCQ

---------- Original Message ----------

From: MIKE DURKIN <Patriot121@...>

To: <uhfsdr@yahoogroups.com>

Subject: RE: [UHFSDR] Daves BPF

Date: Sat, 4 Feb 2012 14:46:24 -0800

Ft23-61 are 0.50 each and t20-6
are 0.40 each ... guess is more cost effective
just to get the SMD inductors.....

Mike KC7NOA

To: UHFSDR@yahoogroups.com

From: dave@...

Date: Sat, 4 Feb 2012 12:39:35 -0800

Subject: Re: [UHFSDR] Daves BPF

Not listed on the
kitsandparts.com site. Amidon does have
them.

Dave - WB6DHW

<http://wb6dhw.com>

On 2/4/2012 12:28 PM, Larry wrote:

kitsandparts.com should have
them.

Larry

From: MIKE DURKIN <Patriot121@...>

Sender: UHFSDR@yahoogroups.com
Date: Sat, 4 Feb 2012
11:53:15 -0800
To: <uhfsdr@yahoogroups.com>
ReplyTo: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Daves
BPF

Im curious where
you got/get t20-6 and FT23-61
toroids for the bandpass filter?

Mike KC7NOA

608. New file uploaded to UHFSDR

Yahoo group: UHFSDR
Date: 2012-02-05 00:17:46 UTC
From: UHFSDR@yahoogroups.com
Topic: 2 Message: 608

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the UHFSDR
group.

File : /BPF/Bandpass Filter Toroid Design-5 Pole.doc
Uploaded by : brainerdd <dave@...>
Description : 5 pole design using toroids

You can access this file at the URL:
http://groups.yahoo.com/group/UHFSDR/files/BPF/Bandpass%20Filter%20Toroid%20Design-5%20Pole.doc

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

brainerdd <dave@...>

609. Re: [UHFSDR] Daves BPF

Yahoo group: UHFSDR
Date: 2012-02-05 00:23:32 UTC
From: Dave
Topic: 598 Message: 609

The smd version has 4.5 to 6 dB of loss. I did not build a toroid version. But, I found a document from R. Meyers who redesigned the filters to be 5 pole using T25 toroids. He measured 1 to 2 dB of loss. I think someone else also built a toroid version of my design.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/4/2012 4:04 PM, MIKE DURKIN wrote:
>
> At what db difference?
>
> Mike KC7NOA
>
> ---
> To: UHFSDR@yahoogroups.com
> From: dave@...
> Date: Sat, 4 Feb 2012 15:31:01 -0800
> Subject: Re: [UHFSDR] Daves BPF
>
> When a BPF was build with toroids it had lower loss than the smd
> toroids. So, the Q must have been higher.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 2/4/2012 3:02 PM, Kees & Sandy wrote:
>
> I'm thinking you are thinking correctly.
> 73 Kees K5BCQ
>
> ---------- Original Message ----------
> From: MIKE DURKIN <Patriot121@...> <mailto:Patriot121@...>
> To: <uhfsdr@yahoogroups.com> <mailto:uhfsdr@yahoogroups.com>
> Subject: RE: [UHFSDR] Daves BPF
> Date: Sat, 4 Feb 2012 15:00:46 -0800
>
>
>
> I wouldn't know ... would toroids have higher Q?(im thinking yes)
>
> ---
> To: UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> From: windy10605@... <mailto:windy10605@...>
> Date: Sat, 4 Feb 2012 22:51:23 +0000

> Subject: RE: [UHFSDR] Daves BPF
>
> You also have to compare the "Q" difference if you care about the
> weak signals.
> 73 Kees K5BCQ
>
> ---------- Original Message ----------
> From: MIKE DURKIN <Patriot121@...> <mailto:Patriot121@...>
> To: <uhfsdr@yahoogroups.com> <mailto:uhfsdr@yahoogroups.com>
> Subject: RE: [UHFSDR] Daves BPF
> Date: Sat, 4 Feb 2012 14:46:24 -0800
>
>
>
> Ft23-61 are 0.50 each and t20-6 are 0.40 each ... guess is more
> cost effective just to get the SMD inductors.....
>
> Mike KC7NOA
>
> ---
> To: UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> From: dave@... <mailto:dave@...>
> Date: Sat, 4 Feb 2012 12:39:35 -0800
> Subject: Re: [UHFSDR] Daves BPF
>
> Not listed on the kitsandparts.com site. Amidon does have them.
>
> Dave - WB6DHW
> <http://wb6dhw.com> <http://wb6dhw.com/>
>
> On 2/4/2012 12:28 PM, Larry wrote:
>
> kitsandparts.com should have them.
>
> Larry
>
> ---
> *From: *MIKE DURKIN <Patriot121@...>
> <mailto:Patriot121@...>
> *Sender: *UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> *Date: *Sat, 4 Feb 2012 11:53:15 -0800
> *To: *<uhfsdr@yahoogroups.com> <mailto:uhfsdr@yahoogroups.com>
> *ReplyTo: *UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> *Subject: *[UHFSDR] Daves BPF
>
>
> Im curious where you got/get t20-6 and FT23-61 toroids for the
> bandpass filter?
>
> Mike KC7NOA

>
>
>
>
>
>
>
>

610. New file uploaded to UHFSDR

Yahoo group: UHFSDR
Date: 2012-02-05 00:40:30 UTC
From: UHFSDR@yahoogroups.com
Topic: 2 Message: 610

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the UHFSDR
group.

File : /BPF/BPF Measurements.zip
Uploaded by : brainerdd <dave@...>
Description : Sweeps of WB6DHW SMD filters

You can access this file at the URL:
http://groups.yahoo.com/group/UHFSDR/files/BPF/BPF%20Measurements.zip

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

brainerdd <dave@...>

611. New file uploaded to UHFSDR

Yahoo group: UHFSDR
Date: 2012-02-06 10:20:19 UTC
From: UHFSDR@yahoogroups.com
Topic: 2 Message: 611

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the UHFSDR
group.

File : /BPF/Arrow_MPLPF.xls
Uploaded by : brainerdd <dave@...>
Description : Arrownac.com BOM upload - all but toroids and relays

You can access this file at the URL:
http://groups.yahoo.com/group/UHFSDR/files/BPF/Arrow_MPLPF.xls

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

brainerdd <dave@...>

612. New file uploaded to UHFSDR

Yahoo group: UHFSDR
Date: 2012-02-06 10:22:52 UTC
From: UHFSDR@yahoogroups.com
Topic: 2 Message: 612

```
Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the UHFSDR
group.

File : /MPLPF/Arrow_MPLPF.xls
Uploaded by : brainerdd <dave@...>
Description : Arrownac.com BOM upload - all but toroids and relays

You can access this file at the URL:
http://groups.yahoo.com/group/UHFSDR/files/MPLPF/Arrow_MPLPF.xls

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

brainerdd <dave@...>
```

613. MPLPF parts

Yahoo group: UHFSDR
Date: 2012-02-06 10:32:58 UTC
From: brainerdd
Topic: 613 Message: 613

I just uploaded a .xls file that can be uploaded to arrownac.com to create a BOM. You have to create a free My Arrow account. This BOM includes all but the toroids, relays and PCB. Unfortunately, arroweurope.com apparently does not carry mica capacitors.
I looked at Farnell. But, their prices for micas are several times that of Arrow. Plus they didn't have the 3.9nF and the 51pf in mica.
The relays are available at futureelectronics.com for $1.45 each. Toroids are available from kitsandparts.com or amidon.
I am looking at putting together a kit of parts. Price for all parts including PCB would be around $80. Let me know if interested. I receive parts from arrow and future in less thasn a week.

Dave - WB6DHW
<http://wb6dhw.com>

614. RE: [UHFSDR] MPLPF parts

Yahoo group: UHFSDR
Date: 2012-02-06 18:03:52 UTC
From: MIKE DURKIN
Topic: 613 Message: 614

Are there turns data for toroids from K&Parts?

Id surely want 1.5db loss compared to 6db. Even if I did use a deferent T1 that was specd to 900mgz....

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Mon, 6 Feb 2012 10:32:58 +0000
Subject: [UHFSDR] MPLPF parts

I just uploaded a .xls file that can be uploaded to arrownac.com to create a BOM. You have to create a free My Arrow account. This BOM includes all but the toroids, relays and PCB. Unfortunately, arroweurope.com apparently does not carry mica capacitors.

I looked at Farnell. But, their prices for micas are several times that of Arrow. Plus they didn't have the 3.9nF and the 51pf in mica.

The relays are available at futureelectronics.com for $1.45 each. Toroids are available from kitsandparts.com or amidon.

I am looking at putting together a kit of parts. Price for all parts including PCB would be around $80. Let me know if interested. I receive parts from arrow and future in less thasn a week.

Dave - WB6DHW

<http://wb6dhw.com>

615. Re: [UHFSDR] MPLPF parts

Yahoo group: UHFSDR
Date: 2012-02-06 20:33:04 UTC
From: Dave
Topic: 613 Message: 615

The 5 pole .doc file has the number of turns for the T25 toroids. It
is in the BPF directory at
<http://f1.grp.yahoofs.com/v1/QDEwT21ZSFubXfetGyoUGdRm3xkVWO4OW0INbI0KJlATK94wNwNwG187mqjY
3iTLtpw6ul9Csgj3mtMAmzA1tA/BPF/Bandpass%20Filter%20Toroid%20Design-5%20Pole.doc>

Dave - WB6DHW
<http://wb6dhw.com>

On 2/6/2012 10:03 AM, MIKE DURKIN wrote:
>
> Are there turns data for toroids from K&Parts?
>
> Id surely want 1.5db loss compared to 6db. Even if I did use a
> deferent T1 that was specd to 900mgz....
>
> Mike KC7NOA
>
> ---
> To: UHFSDR@yahoogroups.com
> From: dave@...
> Date: Mon, 6 Feb 2012 10:32:58 +0000
> Subject: [UHFSDR] MPLPF parts
>
> I just uploaded a .xls file that can be uploaded to arrownac.com to
> create a BOM. You have to create a free My Arrow account. This BOM
> includes all but the toroids, relays and PCB. Unfortunately,
> arroweurope.com apparently does not carry mica capacitors.
> I looked at Farnell. But, their prices for micas are several times
> that of Arrow. Plus they didn't have the 3.9nF and the 51pf in mica.
> The relays are available at futureelectronics.com for $1.45 each.
> Toroids are available from kitsandparts.com or amidon.
> I am looking at putting together a kit of parts. Price for all parts
> including PCB would be around $80. Let me know if interested. I
> receive parts from arrow and future in less thasn a week.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
>
>
>

616. RE: [UHFSDR] MPLPF parts

Yahoo group: UHFSDR
Date: 2012-02-06 20:39:35 UTC
From: MIKE DURKIN
Topic: 613 Message: 616

I tried to view that file before .... it really maxes out the memory and is nearly impossible to view on my DROID.

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Mon, 6 Feb 2012 12:33:04 -0800
Subject: Re: [UHFSDR] MPLPF parts

The 5 pole .doc file has the number of turns for the T25 toroids.
It is in the BPF directory at

<http://f1.grp.yahoofs.com/v1/QDEwT21ZSFubXfetGyoUGdRm3xkVWO4OW0INbI0KJlATK94wNwNwG187mqjY3iTLtpw6ul9Csgj3mtMAmzA1tA/BPF/Bandpass%20Filter%20Toroid%20Design-5%20Pole.doc>

Dave - WB6DHW

<http://wb6dhw.com>

On 2/6/2012 10:03 AM, MIKE DURKIN wrote:

Are there turns data for toroids from
K&Parts?

Id surely want 1.5db loss compared to 6db. Even if I did
use a deferent T1 that was specd to 900mgz....

Mike KC7NOA

To: UHFSDR@yahoogroups.com

From: dave@...

Date: Mon, 6 Feb 2012 10:32:58 +0000

Subject: [UHFSDR] MPLPF parts

I just uploaded a .xls file
that can be uploaded to arrownac.com to create a
BOM. You have to create a free My Arrow account.
This BOM includes all but the toroids, relays and
PCB. Unfortunately, arroweurope.com apparently does
not carry mica capacitors.

I looked at Farnell. But, their prices for micas are
several times that of Arrow. Plus they didn't have
the 3.9nF and the 51pf in mica.

The relays are available at futureelectronics.com for $1.45 each. Toroids are available from kitsandparts.com or amidon.

I am looking at putting together a kit of parts. Price for all parts including PCB would be around $80. Let me know if interested. I receive parts from arrow and future in less thasn a week.

Dave - WB6DHW

<http://wb6dhw.com>

617. Re: [UHFSDR] MPLPF parts

Yahoo group: UHFSDR
Date: 2012-02-06 21:23:34 UTC
From: Dave
Topic: 613 Message: 617
Attachments: 1 described; binary payloads are missing from this source WARC

Mike:
I took out the response graphs and zipped it. Went from 3.3 MByte to
410K.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/6/2012 12:39 PM, MIKE DURKIN wrote:
>
> I tried to view that file before .... it really maxes out the memory
> and is nearly impossible to view on my DROID.
>
> Mike KC7NOA
>
> ---
> To: UHFSDR@yahoogroups.com
> From: dave@...
> Date: Mon, 6 Feb 2012 12:33:04 -0800
> Subject: Re: [UHFSDR] MPLPF parts
>
> The 5 pole .doc file has the number of turns for the T25 toroids. It
> is in the BPF directory at
> <http://f1.grp.yahoofs.com/v1/QDEwT21ZSFubXfetGyoUGdRm3xkVWO4OW0INbI0KJlATK94wNwNwG187mq
jY3iTLtpw6ul9Csgj3mtMAmzA1tA/BPF/Bandpass%20Filter%20Toroid%20Design-5%20Pole.doc>
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 2/6/2012 10:03 AM, MIKE DURKIN wrote:
>
>
> Are there turns data for toroids from K&Parts?
>
> Id surely want 1.5db loss compared to 6db. Even if I did use a
> deferent T1 that was specd to 900mgz....
>
> Mike KC7NOA
>
> ---
> To: UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> From: dave@... <mailto:dave@...>
> Date: Mon, 6 Feb 2012 10:32:58 +0000
> Subject: [UHFSDR] MPLPF parts
>

> I just uploaded a .xls file that can be uploaded to arrownac.com
> to create a BOM. You have to create a free My Arrow account. This
> BOM includes all but the toroids, relays and PCB. Unfortunately,
> arroweurope.com apparently does not carry mica capacitors.
> I looked at Farnell. But, their prices for micas are several times
> that of Arrow. Plus they didn't have the 3.9nF and the 51pf in mica.
> The relays are available at futureelectronics.com for $1.45 each.
> Toroids are available from kitsandparts.com or amidon.
> I am looking at putting together a kit of parts. Price for all
> parts including PCB would be around $80. Let me know if
> interested. I receive parts from arrow and future in less thasn a
> week.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
>
>
>
>
>

618. USB

Yahoo group: UHFSDR
Date: 2012-02-07 21:08:31 UTC
From: edingraham
Topic: 618 Message: 618

How can one interface USB to the UHFSDR to control the Si570?

73, Ed WX4S

619. Re: [UHFSDR] USB

Yahoo group: UHFSDR
Date: 2012-02-07 21:10:40 UTC
From: Oliver Goldenstein
Topic: 618 Message: 619

HI Ed !

I built this here:

http://wb5rvz.com/sdr/usb_i2c/

but you need a programmed AVR maybe from a Softrock project

Good Luck

Oliver DL6KBG

On 7 February 2012 22:08, edingraham <ed@...> wrote:
> How can one interface USB to the UHFSDR to control the Si570?
>
> 73, Ed WX4S
>
>
>
>
> ----------
>
> Yahoo! Groups Links
>
>
>

--
Oliver, DL6KBG, JO61UB
Blog: http://dl6kbg.blogspot.com

620. Re: [UHFSDR] USB

Yahoo group: UHFSDR
Date: 2012-02-07 21:25:28 UTC
From: Dave
Topic: 618 Message: 620

Ed
Any of the boards designed to control an Si570 will work. Also, my
HSUSB board will work and is supported by PowerSDR-IQ.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/7/2012 1:08 PM, edingraham wrote:
>
> How can one interface USB to the UHFSDR to control the Si570?
>
> 73, Ed WX4S
>
>
>

621. Re: [UHFSDR] USB

Yahoo group: UHFSDR
Date: 2012-02-07 21:44:11 UTC
From: Sid Boyce
Topic: 618 Message: 621

Right now I'm using a SDR-Widget.
These will work and have been used here:-
Attiny85 (KB9YIG)
UBW
si570 Controller (K5BCQ)

Basically anything that's DG8SAQ compatible.
73 ... Sid.

On 07/02/12 21:08, edingraham wrote:
>
> How can one interface USB to the UHFSDR to control the Si570?
>
> 73, Ed WX4S
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

622. Re: USB

Yahoo group: UHFSDR
Date: 2012-02-07 22:21:13 UTC
From: sv1eia
Topic: 618 Message: 622

Have a look at this

-> http://ntms.org/files/KC4YOE_UHFSDR-USB2SDR.pdf

73,
Christos SV1EIA
http://groups.yahoo.com/group/powersdr-iq/
http://www.wb5rvz.com/usb2sdr/

--- In UHFSDR@yahoogroups.com, "edingraham" <ed@...> wrote:
>
> How can one interface USB to the UHFSDR to control the Si570?
>
> 73, Ed WX4S
>

623. Re: [UHFSDR] USB

Yahoo group: UHFSDR
Date: 2012-02-07 22:23:03 UTC
From: Keenan
Topic: 618 Message: 623

Haven't finished my UHFSDR yet, but I have built up a simple control board using the code from here: https://code.google.com/p/usbavrsi570/ and the simple schematic (modified to run on 3.3V so it doesn't need zeners on the USB) from the Softrock which can be found here: http://www.wb5rvz.com/sdr/ensemble_rx_ii/ . It's about 4 parts plus the ATtiny (which you will need to program...)

Keenan VE7XEN

On 2/7/2012 1:08 PM, edingraham wrote:
>
>
> How can one interface USB to the UHFSDR to control the Si570?
>
> 73, Ed WX4S
>
>

624. Re: USB

Yahoo group: UHFSDR
Date: 2012-02-08 11:17:20 UTC
From: edingraham
Topic: 618 Message: 624

First: I looked at the various suggestions and find that most are significantly more capable than I need. At least one is no longer available.

Keenan, I was thinking along your lines when I read your message. This is also similar to the KB9YIG USB I2C which is no longer available. www.wb5rvz.com/sdr/usb_i2c/

thepartsplace.k5nwa.com/ offers a programmed ATTINY

Could you expand on your 3.3V and zeners comment, I am not familiar with USB.

73, Ed WX4S

--- In UHFSDR@yahoogroups.com, Keenan <keenan.tims@...> wrote:
>
> Haven't finished my UHFSDR yet, but I have built up a simple control
> board using the code from here: https://code.google.com/p/usbavrsi570/
> and the simple schematic (modified to run on 3.3V so it doesn't need
> zeners on the USB) from the Softrock which can be found here:
> http://www.wb5rvz.com/sdr/ensemble_rx_ii/ . It's about 4 parts plus the
> ATtiny (which you will need to program...)
>
> Keenan VE7XEN
>
> On 2/7/2012 1:08 PM, edingraham wrote:
> >
> >
> > How can one interface USB to the UHFSDR to control the Si570?
> >
> > 73, Ed WX4S
> >
> >
>

625. Re: [UHFSDR] Re: USB

Yahoo group: UHFSDR
Date: 2012-02-08 11:43:34 UTC
From: Keenan
Topic: 618 Message: 625

USB supplies 5V power, however the signal lines are supposed to be 3.3V. In the Softrock schematic I linked to, the ATtiny runs on 5V, and Zeners D1 and D2 are used to clamp the USB data lines to 3.3V to satisfy the specification (3.6V is also acceptable). If the ATtiny is instead run directly on 3.3V, these zeners are unnecessary as its outputs will naturally be 3.3V. However, technically this is overclocking the ATtiny as it's only specified for ~13MHz with a 3.3V supply and we're using it at 16.5MHz. It works for me, and I've never had trouble running AVRs at their full clock speed on 3.3V but YMMV, it's outside the specs. I've only done it because I don't have the 3.3V zeners on hand and needed something to build before my Si750 arrives. ADuM1251 on the UHFSDR can work at 3.3V or 5V just fine, so I'd suggest using the circuit as written, you also shouldn't need a regulator either in that case.

On 2/8/2012 3:17 AM, edingraham wrote:

> Keenan, I was thinking along your lines when I read your message. This
> is also similar to the KB9YIG USB I2C which is no longer available.
> www.wb5rvz.com/sdr/usb_i2c/
>

I wasn't aware of that one, basically the same thing but missing the necessary I2C pull-up resistors and with a bit of a different setup for the aux outputs. I also have only included one optoisolator for PTT. My original plan was actually to use this project: http://www.harbaum.org/till/i2c_tiny_usb/index.shtml which is completely unrelated to ham radio, and write the computer interface part myself (which I will probably have to do anyway since I use Linux mostly for radio stuff). Finding the usbavrsi570 project and realizing it will work almost perfectly for UHFSDR was a very nice surprise.

> Could you expand on your 3.3V and zeners comment, I am not familiar
> with USB.
>

USB supplies 5V power, however the signal lines are supposed to use 3.3V. In the Softrock schematic I linked to, the ATtiny runs on 5V, and Zeners D1 and D2 are used to clamp the USB data lines to 3.3V to satisfy the specification (3.6V is also acceptable). If the ATtiny is instead run directly on 3.3V, these zeners are unnecessary as its outputs will naturally be 3.3V. However, technically this is overclocking the ATtiny as it's only specified for ~13MHz with a 3.3V supply and we're using it at 16.5MHz. It works for me, and I've never had trouble running AVRs at their full clock speed on 3.3V but YMMV, it's outside the specs. I've only done it because I don't have the 3.3V zeners on hand and needed something to build before my Si750 arrives. ADuM1251 on the UHFSDR can work at 3.3V or 5V just fine, so I'd suggest using the circuit as written, you also won't need a regulator either in that case, as they

have done in the Softrock (I used one to get my 3.3V supply).

If you'd like I can draw up a schematic of a minimal design suitable for UHFSDR.

Keenan VE7XEN

626. Re: USB

Yahoo group: UHFSDR
Date: 2012-02-08 12:11:10 UTC
From: sv1eia
Topic: 618 Message: 626

Hi Ed,

If you want to have a simplistic approach, then, PowerSDR-IQ can utilize via LPT the I2C for UHFSDR's Si570, provided that you do have a LPT available.

If you really need though a USB low cost solution that works with the current sdr applications, then you can have a look also at these

http://km5h.softrockradio.org/index.php?route=product/category&path=36
http://www.box73.de/catalog/product_info.php?products_id=1869

73,
Christos SV1EIA
http://groups.yahoo.com/group/powersdr-iq/
http://www.wb5rvz.com/usb2sdr/

--- In UHFSDR@yahoogroups.com, "edingraham" <ed@...> wrote:
>
> First: I looked at the various suggestions and find that most are significantly more capable than I need. At least one is no longer available.
>
> Keenan, I was thinking along your lines when I read your message. This is also similar to the KB9YIG USB I2C which is no longer available. www.wb5rvz.com/sdr/usb_i2c/
>
> thepartsplace.k5nwa.com/ offers a programmed ATTINY
>
> Could you expand on your 3.3V and zeners comment, I am not familiar with USB.
>
> 73, Ed WX4S
>
> --- In UHFSDR@yahoogroups.com, Keenan <keenan.tims@> wrote:
> >
> > Haven't finished my UHFSDR yet, but I have built up a simple control
> > board using the code from here: https://code.google.com/p/usbavrsi570/
> > and the simple schematic (modified to run on 3.3V so it doesn't need
> > zeners on the USB) from the Softrock which can be found here:
> > http://www.wb5rvz.com/sdr/ensemble_rx_ii/ . It's about 4 parts plus the
> > ATtiny (which you will need to program...)
> >
> > Keenan VE7XEN
> >
> > On 2/7/2012 1:08 PM, edingraham wrote:
> > >
> > >
> > > How can one interface USB to the UHFSDR to control the Si570?
> > >

> > > 73, Ed WX4S
> > >
> > >
> >
>

628. Re: USB

Yahoo group: UHFSDR
Date: 2012-02-08 13:00:02 UTC
From: edingraham
Topic: 618 Message: 628

Christos,

Thanks for the info. I have no LPT available, hence the desire for USB.
The 2 solutions which you propose are workable, but I would have to leave many of the parts off the PCB. They do have the advantage of the USB connector and PCB.

73, Ed WX4S

--- In UHFSDR@yahoogroups.com, "sv1eia" <sv1eia@...> wrote:
>
> Hi Ed,
>
> If you want to have a simplistic approach, then, PowerSDR-IQ can utilize via LPT the I2C for UHFSDR's Si570, provided that you do have a LPT available.
>
> If you really need though a USB low cost solution that works with the current sdr applications, then you can have a look also at these
>
> http://km5h.softrockradio.org/index.php?route=product/category&path=36
> http://www.box73.de/catalog/product_info.php?products_id=1869
>
> 73,
> Christos SV1EIA
> http://groups.yahoo.com/group/powersdr-iq/
> http://www.wb5rvz.com/usb2sdr/
>
>
> --- In UHFSDR@yahoogroups.com, "edingraham" <ed@> wrote:
> >
> > First: I looked at the various suggestions and find that most are significantly more capable than I need. At least one is no longer available.
> >
> > Keenan, I was thinking along your lines when I read your message. This is also similar to the KB9YIG USB I2C which is no longer available. www.wb5rvz.com/sdr/usb_i2c/
> >
> > thepartsplace.k5nwa.com/ offers a programmed ATTINY
> >
> > Could you expand on your 3.3V and zeners comment, I am not familiar with USB.
> >
> > 73, Ed WX4S
> >
> > --- In UHFSDR@yahoogroups.com, Keenan <keenan.tims@> wrote:
> > >
> > > Haven't finished my UHFSDR yet, but I have built up a simple control
> > > board using the code from here: https://code.google.com/p/usbavrsi570/
> > > and the simple schematic (modified to run on 3.3V so it doesn't need

> > > zeners on the USB) from the Softrock which can be found here:
> > > http://www.wb5rvz.com/sdr/ensemble_rx_ii/ . It's about 4 parts plus the
> > > ATtiny (which you will need to program...)
> > >
> > > Keenan VE7XEN
> > >
> > > On 2/7/2012 1:08 PM, edingraham wrote:
> > > >
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> > > > How can one interface USB to the UHFSDR to control the Si570?
> > > >
> > > > 73, Ed WX4S
> > > >
> > > >
> > >
> >
>

629. Re: [UHFSDR] USB

Yahoo group: UHFSDR
Date: 2012-02-08 15:14:38 UTC
From: Stephen Farthing
Topic: 618 Message: 629

You can get the original DG8SAQ USB interface AKA the QRP2000 synth kit from www.sdr-kits.com. You can spec the si570 type you want on the site (there are several grades and price depends on upper frequency limit)

73s Steve G0XAR

--
Wisdom demands a new orientation of science and technology towards the organic, the gentle, the non-violent, the elegant and beautiful. E. F. Schumacher

630. Re: USB

Yahoo group: UHFSDR
Date: 2012-02-08 21:27:59 UTC
From: edingraham
Topic: 618 Message: 630

I did order this kit from KM5H. I expect to only populate the necessary parts.

73, Ed WX4S

--- In UHFSDR@yahoogroups.com, Stephen Farthing <squirrox@...> wrote:
>
> You can get the original DG8SAQ USB interface AKA the QRP2000 synth kit
> from www.sdr-kits.com. You can spec the si570 type you want on the site
> (there are several grades and price depends on upper frequency limit)
>
> 73s Steve G0XAR
>
> --
> Wisdom demands a new orientation of science and technology towards the
> organic, the gentle, the non-violent, the elegant and beautiful. E. F.
> Schumacher
>

631. RE: [UHFSDR] Re: USB

Yahoo group: UHFSDR
Date: 2012-02-08 21:57:00 UTC
From: MIKE DURKIN
Topic: 618 Message: 631

Im going to just not put on the Si570 and it's pull up resistors .... placed on the UHFSDR ...

Mike KC7NOA

http://spokane.craigslist.org/ele/2770113937.html

To: UHFSDR@yahoogroups.com
From: ed@...
Date: Wed, 8 Feb 2012 21:27:59 +0000
Subject: [UHFSDR] Re: USB

I did order this kit from KM5H. I expect to only populate the necessary parts.

73, Ed WX4S

--- In UHFSDR@yahoogroups.com, Stephen Farthing <squirrox@...> wrote:

>

> You can get the original DG8SAQ USB interface AKA the QRP2000 synth kit

> from www.sdr-kits.com. You can spec the si570 type you want on the site

> (there are several grades and price depends on upper frequency limit)

>

> 73s Steve G0XAR

>

> --

> Wisdom demands a new orientation of science and technology towards the

> organic, the gentle, the non-violent, the elegant and beautiful. E. F.

> Schumacher

>

632. RE: [UHFSDR] MPLPF parts

Yahoo group: UHFSDR
Date: 2012-02-08 23:10:18 UTC
From: MIKE DURKIN
Topic: 613 Message: 632

Silly question ... what's the parts count to the digikey BOM? 54?

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Mon, 6 Feb 2012 13:23:34 -0800
Subject: Re: [UHFSDR] MPLPF parts

Mike:

I took out the response graphs and zipped it. Went from 3.3 MByte
to 410K.

Dave - WB6DHW

<http://wb6dhw.com>

On 2/6/2012 12:39 PM, MIKE DURKIN wrote:

I tried to view that file before .... it
really maxes out the memory and is nearly impossible to
view on my DROID.

Mike KC7NOA

To: UHFSDR@yahoogroups.com

From: dave@...

Date: Mon, 6 Feb 2012 12:33:04 -0800

Subject: Re: [UHFSDR] MPLPF parts

The 5 pole .doc file has the
number of turns for the T25 toroids. It is in the
BPF directory at

<http://f1.grp.yahoofs.com/v1/QDEwT21ZSFubXfetGyoUGdRm3xkVWO4OW0INbI0KJlATK94wNwNwG187mqjY
3iTLtpw6ul9Csgj3mtMAmzA1tA/BPF/Bandpass%20Filter%20Toroid%20Design-5%20Pole.doc>

Dave - WB6DHW

<http://wb6dhw.com>

On 2/6/2012 10:03 AM, MIKE DURKIN wrote:

Are there turns data for toroids
from K&Parts?

Id surely want 1.5db loss compared to 6db.
Even if I did use a deferent T1 that was specd
to 900mgz....

Mike KC7NOA

To: UHFSDR@yahoogroups.com

From: dave@...

Date: Mon, 6 Feb 2012 10:32:58 +0000

Subject: [UHFSDR] MPLPF parts

I just uploaded a
.xls file that can be uploaded to
arrownac.com to create a BOM. You have
to create a free My Arrow account. This
BOM includes all but the toroids, relays
and PCB. Unfortunately, arroweurope.com
apparently does not carry mica
capacitors.

I looked at Farnell. But, their prices
for micas are several times that of
Arrow. Plus they didn't have the 3.9nF
and the 51pf in mica.

The relays are available at
futureelectronics.com for $1.45 each.
Toroids are available from
kitsandparts.com or amidon.

I am looking at putting together a kit
of parts. Price for all parts including
PCB would be around $80. Let me know if
interested. I receive parts from arrow
and future in less thasn a week.

Dave - WB6DHW

<http://wb6dhw.com>

633. Re: [UHFSDR] BPF parts

Yahoo group: UHFSDR
Date: 2012-02-08 23:33:59 UTC
From: Dave
Topic: 613 Message: 633

Mike:
I think you are asking about the BPF despite the Subject saying
MPLPF. My Digital BOM for the BPFhas 53 parts.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/8/2012 3:10 PM, MIKE DURKIN wrote:
>
> Silly question ... what's the parts count to the digikey BOM? 54?
>
> Mike KC7NOA
>
> ---
> To: UHFSDR@yahoogroups.com
> From: dave@...
> Date: Mon, 6 Feb 2012 13:23:34 -0800
> Subject: Re: [UHFSDR] MPLPF parts
>
> Mike:
> I took out the response graphs and zipped it. Went from 3.3 MByte
> to 410K.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 2/6/2012 12:39 PM, MIKE DURKIN wrote:
>
>
> I tried to view that file before .... it really maxes out the
> memory and is nearly impossible to view on my DROID.
>
> Mike KC7NOA
>
> ---
> To: UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> From: dave@... <mailto:dave@...>
> Date: Mon, 6 Feb 2012 12:33:04 -0800
> Subject: Re: [UHFSDR] MPLPF parts
>
> The 5 pole .doc file has the number of turns for the T25
> toroids. It is in the BPF directory at
> <http://f1.grp.yahoofs.com/v1/QDEwT21ZSFubXfetGyoUGdRm3xkVWO4OW0INbI0KJlATK94wNwNwG187mq
jY3iTLtpw6ul9Csgj3mtMAmzA1tA/BPF/Bandpass%20Filter%20Toroid%20Design-5%20Pole.doc>
>

> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 2/6/2012 10:03 AM, MIKE DURKIN wrote:
>
>
>
> Are there turns data for toroids from K&Parts?
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> Id surely want 1.5db loss compared to 6db. Even if I did use a
> deferent T1 that was specd to 900mgz....
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> Mike KC7NOA
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> ---
> To: UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> From: dave@... <mailto:dave@...>
> Date: Mon, 6 Feb 2012 10:32:58 +0000
> Subject: [UHFSDR] MPLPF parts
>
> I just uploaded a .xls file that can be uploaded to
> arrownac.com to create a BOM. You have to create a free My
> Arrow account. This BOM includes all but the toroids, relays
> and PCB. Unfortunately, arroweurope.com apparently does not
> carry mica capacitors.
> I looked at Farnell. But, their prices for micas are several
> times that of Arrow. Plus they didn't have the 3.9nF and the
> 51pf in mica.
> The relays are available at futureelectronics.com for $1.45
> each. Toroids are available from kitsandparts.com or amidon.
> I am looking at putting together a kit of parts. Price for all
> parts including PCB would be around $80. Let me know if
> interested. I receive parts from arrow and future in less
> thasn a week.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
>
>
>
>
>
>

634. RE: [UHFSDR] BPF parts

Yahoo group: UHFSDR
Date: 2012-02-09 00:55:40 UTC
From: MIKE DURKIN
Topic: 613 Message: 634

Yes ... sorry bout that..... ²¾ of the time I forget ....

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Wed, 8 Feb 2012 15:33:59 -0800
Subject: Re: [UHFSDR] BPF parts

Mike:

I think you are asking about the BPF despite the Subject saying
MPLPF. My Digital BOM for the BPFhas 53 parts.

Dave - WB6DHW

<http://wb6dhw.com>

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the digikey BOM? 54?

Mike KC7NOA

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From: dave@...

Date: Mon, 6 Feb 2012 13:23:34 -0800

Subject: Re: [UHFSDR] MPLPF parts

Mike:

I took out the response graphs and zipped it.
Went from 3.3 MByte to 410K.

Dave - WB6DHW

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From: dave@...

Date: Mon, 6 Feb 2012 12:33:04 -0800

Subject: Re: [UHFSDR] MPLPF parts

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toroids. It is in the BPF directory at

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Are there turns data
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Id surely want 1.5db loss compared
to 6db. Even if I did use a
deferent T1 that was specd to
900mgz....

Mike KC7NOA

To: UHFSDR@yahoogroups.com

From: dave@...

Date: Mon, 6 Feb 2012 10:32:58
+0000

Subject: [UHFSDR] MPLPF parts

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uploaded a .xls file that
can be uploaded to
arrownac.com to create a
BOM. You have to create a
free My Arrow account. This
BOM includes all but the
toroids, relays and PCB.
Unfortunately,
arroweurope.com apparently
does not carry mica
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3.9nF and the 51pf in mica.

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futureelectronics.com for
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available from
kitsandparts.com or amidon.

I am looking at putting
together a kit of parts.
Price for all parts
including PCB would be
around $80. Let me know if
interested. I receive parts
from arrow and future in
less thasn a week.

Dave - WB6DHW

<http://wb6dhw.com>

635. UHFSDR 144 Mhz, 432 Mhz MDS Results.

Yahoo group: UHFSDR
Date: 2012-02-09 20:02:16 UTC
From: Ed
Topic: 635 Message: 635

Hi All,

I decided to do a measurement of the MDS of the UHFSDR on 144 Mhz and 432 Mhz. The following results were observed :- -145dbm on both bands.

Has anyone else got results ? Can we compare ?

Also, has anyone measured the waveform amplitudes around the DBM Mixer when in TX mode ? I seem to be lacking in drive to the PA IC. The TX output power is approximately 30 mW. I have measured the oscillator drive as 400mV P/P into the DBMs. The TX IQ AF input level is 1 Volt P/P during these measurements.

Others have reported 100 mW TX O/P. I would like to see where the difference is.

Regards
Ed GM3SBC

636. RE: [UHFSDR] UHFSDR 144 Mhz, 432 Mhz MDS Results.

Yahoo group: UHFSDR
Date: 2012-02-09 20:14:02 UTC
From: MIKE DURKIN
Topic: 635 Message: 636

Was the balance and phase for 440mhz good for 144mhz too?

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: ed.murphy31@...
Date: Thu, 9 Feb 2012 20:02:16 +0000
Subject: [UHFSDR] UHFSDR 144 Mhz, 432 Mhz MDS Results.

Hi All,

I decided to do a measurement of the MDS of the UHFSDR on 144 Mhz and 432 Mhz. The following results were observed :- -145dbm on both bands.

Has anyone else got results ? Can we compare ?

Also, has anyone measured the waveform amplitudes around the DBM Mixer when in TX mode ? I seem to be lacking in drive to the PA IC. The TX output power is approximately 30 mW. I have measured the oscillator drive as 400mV P/P into the DBMs. The TX IQ AF input level is 1 Volt P/P during these measurements.

Others have reported 100 mW TX O/P. I would like to see where the difference is.

Regards

Ed GM3SBC

637. Re: [UHFSDR] UHFSDR 144 Mhz, 432 Mhz MDS Results.

Yahoo group: UHFSDR
Date: 2012-02-09 20:45:40 UTC
From: Dave
Topic: 635 Message: 637

Ed:
I think you are off by a factor of 2 on the Oscillator drive. Likely because it is differential across the winding. Neither side of the LO winding is grounded. I get less than 20mW out of my UHFSDR. Didn't measure the audio input.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/9/2012 12:02 PM, Ed wrote:
>
> Hi All,
>
> I decided to do a measurement of the MDS of the UHFSDR on 144 Mhz and
> 432 Mhz. The following results were observed :- -145dbm on both bands.
>
> Has anyone else got results ? Can we compare ?
>
> Also, has anyone measured the waveform amplitudes around the DBM Mixer
> when in TX mode ? I seem to be lacking in drive to the PA IC. The TX
> output power is approximately 30 mW. I have measured the oscillator
> drive as 400mV P/P into the DBMs. The TX IQ AF input level is 1 Volt
> P/P during these measurements.
>
> Others have reported 100 mW TX O/P. I would like to see where the
> difference is.
>
> Regards
> Ed GM3SBC
>
>

638. Re: UHFSDR 144 Mhz, 432 Mhz MDS Results.

Yahoo group: UHFSDR
Date: 2012-02-09 21:07:56 UTC
From: Ed
Topic: 635 Message: 638

OK Dave , Thanks , yes that was only one input I reported.Regarding the TX output power, I wonder how others have reported much higher powers. Sid, states that he has 100 mW. It would be nice to know what output he is getting from the DBM under a stated drive level.

Mike I found that I had to rebalance the phase when going from 144 Mhz to 432 Mhz. There appeared to be a large difference but I could still get good results when I finished the adjustment.It must be said however that it was close to the maximum range available on WR Plus to achieve balance when on 432 Mhz. This would point to the need for any software being used to store the settings for each band or have rapid automatic phasing.
Regards
Ed.
> Ed:

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
.
> Ed:
> I think you are off by a factor of 2 on the Oscillator drive. Likely
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> winding is grounded. I get less than 20mW out of my UHFSDR. Didn't
> measure the audio input.
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> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 2/9/2012 12:02 PM, Ed wrote:
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> > Also, has anyone measured the waveform amplitudes around the DBM Mixer
> > when in TX mode ? I seem to be lacking in drive to the PA IC. The TX
> > output power is approximately 30 mW. I have measured the oscillator
> > drive as 400mV P/P into the DBMs. The TX IQ AF input level is 1 Volt
> > P/P during these measurements.
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> > Others have reported 100 mW TX O/P. I would like to see where the
> > difference is.
> >
> > Regards
> > Ed GM3SBC
> >

> >
>

639. Re: [UHFSDR] Re: UHFSDR 144 Mhz, 432 Mhz MDS Results.

Yahoo group: UHFSDR
Date: 2012-02-09 21:38:06 UTC
From: Sid Boyce
Topic: 635 Message: 639

I measured the voltage and did the sums and it was pretty much the 100mW as stated in the build document.
I haven't got around to changing the HMC482 since it seemed to have died after connecting up to the 15W Amp. I'll replace it tomorrow and make further measurements.
73 ... Sid.

On 09/02/12 21:07, Ed wrote:
>
> OK Dave , Thanks , yes that was only one input I reported.Regarding
> the TX output power, I wonder how others have reported much higher
> powers. Sid, states that he has 100 mW. It would be nice to know what
> output he is getting from the DBM under a stated drive level.
>
> Mike I found that I had to rebalance the phase when going from 144 Mhz
> to 432 Mhz. There appeared to be a large difference but I could still
> get good results when I finished the adjustment.It must be said
> however that it was close to the maximum range available on WR Plus to
> achieve balance when on 432 Mhz. This would point to the need for any
> software being used to store the settings for each band or have rapid
> automatic phasing.
> Regards
> Ed.
> > Ed:
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Dave
> <dave@...> wrote:
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> > Ed:
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> > because it is differential across the winding. Neither side of the LO
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> > measure the audio input.
> >
> > Dave - WB6DHW
> > <http://wb6dhw.com>
> >
> > On 2/9/2012 12:02 PM, Ed wrote:
> > >
> > > Hi All,
> > >
> > > I decided to do a measurement of the MDS of the UHFSDR on 144 Mhz and
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> > > P/P during these measurements.
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> > > difference is.
> > >
> > > Regards
> > > Ed GM3SBC
> > >
> > >
> >
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

640. RE: [UHFSDR] Re: UHFSDR 144 Mhz, 432 Mhz MDS Results.

Yahoo group: UHFSDR
Date: 2012-02-09 22:42:32 UTC
From: MIKE DURKIN
Topic: 635 Message: 640

Well ... not sure if this would be an official feature request for the sdr2go or not but, probably would help alot having separate phase/balance for the upper freq regions .....
Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: ed.murphy31@...
Date: Thu, 9 Feb 2012 21:07:56 +0000
Subject: [UHFSDR] Re: UHFSDR 144 Mhz, 432 Mhz MDS Results.

OK Dave , Thanks , yes that was only one input I reported.Regarding the TX output power, I wonder how others have reported much higher powers. Sid, states that he has 100 mW. It would be nice to know what output he is getting from the DBM under a stated drive level.

Mike I found that I had to rebalance the phase when going from 144 Mhz to 432 Mhz. There appeared to be a large difference but I could still get good results when I finished the adjustment.It must be said however that it was close to the maximum range available on WR Plus to achieve balance when on 432 Mhz. This would point to the need for any software being used to store the settings for each band or have rapid automatic phasing.

Regards

Ed.

> Ed:

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> Ed:

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> winding is grounded. I get less than 20mW out of my UHFSDR. Didn't

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> Dave - WB6DHW

> <http://wb6dhw.com>

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> > Hi All,

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> > drive as 400mV P/P into the DBMs. The TX IQ AF input level is 1 Volt

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> > Others have reported 100 mW TX O/P. I would like to see where the

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> >

> > Regards

> > Ed GM3SBC

> >

> >

>

641. Re: [UHFSDR] UHFSDR 144 Mhz, 432 Mhz MDS Results.

Yahoo group: UHFSDR
Date: 2012-02-10 01:06:53 UTC
From: w9amr@aol.com
Topic: 635 Message: 641

Hi Ed

That would be an amazing about of sensitivity. Sounds card performance would make comparing performance station to station about impossible unless everyone runs the same soundcard. My best is -123 dbm for 5 db signal above noise floor. This is with a SDR Widget and signal generator is a IFR1200. Are you reading DBM level from the signal generator or in the SDR software? I would not trust the level in the software. I can not even generate a signal that low.

Larry W9AMR

2/9/2012 3:02:21 P.M. Eastern Standard Time, ed.murphy31@... writes:

Hi All,

I decided to do a measurement of the MDS of the UHFSDR on 144 Mhz and 432 Mhz. The following results were observed :- -145dbm on both bands.

Has anyone else got results ? Can we compare ?

Also, has anyone measured the waveform amplitudes around the DBM Mixer when in TX mode ? I seem to be lacking in drive to the PA IC. The TX output power is approximately 30 mW. I have measured the oscillator drive as 400mV P/P into the DBMs. The TX IQ AF input level is 1 Volt P/P during these measurements.

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Regards
Ed GM3SBC

642. MPLPF boards

Yahoo group: UHFSDR
Date: 2012-02-10 05:56:54 UTC
From: brainerdd
Topic: 642 Message: 642

The 100W low pass filter boards are now on their way to me. They have been picked up by Fedex and estimated delivery to me is Feb. 13.

Dave - WB6DHW
<http://wb6dhw.com>

643. Re: [UHFSDR] MPLPF boards

Yahoo group: UHFSDR
Date: 2012-02-10 06:11:24 UTC
From: Alan Hill
Topic: 642 Message: 643

Dave,
I'd still like to add those to the UHFSDR inventory.
Alan
On Feb 9, 2012 9:57 PM, "brainerdd" <dave@...> wrote:

> **
>
>
> The 100W low pass filter boards are now on their way to me. They have been
> picked up by Fedex and estimated delivery to me is Feb. 13.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
>
>

644. Re: [UHFSDR] MPLPF boards

Yahoo group: UHFSDR
Date: 2012-02-10 06:13:37 UTC
From: w9amr@aol.com
Topic: 642 Message: 644

FWIW, I would like to see it as a complete kit as well. I am to lazy to order parts :-)

Larry W9AMR

In a message dated 2/10/2012 1:11:27 A.M. Eastern Standard Time, alan.r.hill@... writes:

Dave,
I'd still like to add those to the UHFSDR inventory.
Alan
On Feb 9, 2012 9:57 PM, "brainerdd" <_dave@..._ (mailto:dave@...) > wrote:

The 100W low pass filter boards are now on their way to me. They have been picked up by Fedex and estimated delivery to me is Feb. 13.

Dave - WB6DHW
<_http://wb6dhw.com_ (http://wb6dhw.com/) >

645. Re: UHFSDR 144 Mhz, 432 Mhz MDS Results.

Yahoo group: UHFSDR
Date: 2012-02-10 10:32:11 UTC
From: Ed
Topic: 635 Message: 645

Hi Larry,

Yes I was surprised by the result. First , I am using an HP generator with level set at -100 dbm then a series of SMA 18 Ghz attenuators. In this way I hope to have removed any attenuator leakage problems. At the level quoted I am getting a clear visual trace on WR Plus. I would think that your result of 5 db S/N at -123dbm is very good. If you wish we could measure at a particular S/N and report back , say 1 db S/N in a 200Hz bandwidth.
Regards

Ed.

--- In UHFSDR@yahoogroups.com, w9amr@... wrote:
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> Hi Ed
>
> That would be an amazing about of sensitivity. Sounds card performance
> would make comparing performance station to station about impossible unless
> everyone runs the same soundcard. My best is -123 dbm for 5 db signal above
> noise floor. This is with a SDR Widget and signal generator is a IFR1200.
> Are you reading DBM level from the signal generator or in the SDR software? I
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> Larry W9AMR
>
>
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> 2/9/2012 3:02:21 P.M. Eastern Standard Time, ed.murphy31@... writes:
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> measurements.
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> Others have reported 100 mW TX O/P. I would like to see where the

> difference is.
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> Regards
> Ed GM3SBC
>

646. Re: UHFSDR 144 Mhz, 432 Mhz MDS Results.

Yahoo group: UHFSDR
Date: 2012-02-10 13:33:07 UTC
From: sv1eia
Topic: 635 Message: 646

Just to point out that:
in order to have a uniform approach, when we refer to MDS, you have to specify if it is in accordance to the ARRL tests where the bandwidth for the calculation of the noise floor does play a significant role so as it is said in the test procedures manual "The test is conducted with the receiver in the CW mode using the 500 Hz".
"5.1 NOISE FLOOR TEST"
-> http://www.arrl.org/test-procedures-manual

I'm pointing this, since SDR applications, if and when they are level-calibrated, on their 'visual' representations of signals, have the 1 Hz bandwidth, so if you rely on the 'visual' level lines, it goes way off from the proper 500Hz computation of MDS measurement.

Just my 2c

73,
Christos SV1EIA

--- In UHFSDR@yahoogroups.com, "Ed" <ed.murphy31@...> wrote:
>
> Hi Larry,
>
> Yes I was surprised by the result. First , I am using an HP generator with level set at -100 dbm then a series of SMA 18 Ghz attenuators. In this way I hope to have removed any attenuator leakage problems. At the level quoted I am getting a clear visual trace on WR Plus. I would think that your result of 5 db S/N at -123dbm is very good. If you wish we could measure at a particular S/N and report back , say 1 db S/N in a 200Hz bandwidth.
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647. Re: [UHFSDR] Re: UHFSDR 144 Mhz, 432 Mhz MDS Results.

Yahoo group: UHFSDR
Date: 2012-02-11 04:33:07 UTC
From: w9amr@aol.com
Topic: 635 Message: 647

HI Ed

My measurements (as suggested by Christoes earlier) were made in CW at 100hz band width. I would be glad to make any comparison measurements that you want but without using the same soundcards my measurements would not be very useful as a comparison to yours. I have a few projects on the bench at the moment. Towards the end of the weekend I will measure sensitivity at different frequencies band widths and different signal levels above the noise floor The UHFSDR is the most sensitive RX I have in the shack!

Larry W9AMR

In a message dated 2/10/2012 5:32:16 A.M. Eastern Standard Time, ed.murphy31@... writes:

Hi Larry,

Yes I was surprised by the result. First , I am using an HP generator with level set at -100 dbm then a series of SMA 18 Ghz attenuators. In this way I hope to have removed any attenuator leakage problems. At the level quoted I am getting a clear visual trace on WR Plus. I would think that your result of 5 db S/N at -123dbm is very good. If you wish we could measure at a particular S/N and report back , say 1 db S/N in a 200Hz bandwidth.
Regards

Ed.

--- In _UHFSDR@yahoogroups.com_ (mailto:UHFSDR@yahoogroups.com) , w9amr@...
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648. Re: UHFSDR 144 Mhz, 432 Mhz MDS Results.

Yahoo group: UHFSDR
Date: 2012-02-11 09:40:12 UTC
From: sv1eia
Topic: 635 Message: 648

Measuring at 100Hz bandwidth will yeld a more than 6dB difference to the 500Hz, so if you have -123dB at 100Hz, it will be higher than -117dB in 500Hz.

Having said that, indeed the UHFSDR is the most sensitive one since it has a 18dB LNA on its frontend thus it works always pre-amplified. That is needed to counter the DBM and FST switch losses and it leaves more gain above them. By the way, after carefull calibration and observation, I'm having here with the UHFSDR/USB2SDR combo, a MDS of -130 dB at 500Hz CW.

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649. Re: UHFSDR 144 Mhz, 432 Mhz MDS Results.

Yahoo group: UHFSDR
Date: 2012-02-11 09:46:18 UTC
From: sv1eia
Topic: 635 Message: 649

typo: change dB to dBm

--- In UHFSDR@yahoogroups.com, "sv1eia" <sv1eia@...> wrote:
>
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Yahoo group: UHFSDR
Date: 2012-02-12 06:15:02 UTC
From: w9amr@aol.com
Topic: 635 Message: 650

Hi Christoes

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The UHFSDR was paired with a modified MOBO so I had the loses of the FST's and BPF in play. I love all the SDR stuff. It is amazing. And I really appreciate the work you have done with PSDR! I wish I could figure out what I did with the USB2SDR board I bought! I would really like to try it. I hope to run across it. Sooner then later! Did you release a PSDR version with CTCSS and repeater offset yet?

Larry W9AMR

In a message dated 2/11/2012 4:40:16 A.M. Eastern Standard Time, sv1eia@... writes:

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651. Re: UHFSDR 144 Mhz, 432 Mhz MDS Results.

Yahoo group: UHFSDR
Date: 2012-02-13 13:51:07 UTC
From: sv1eia
Topic: 635 Message: 651

--- In UHFSDR@yahoogroups.com, w9amr@... wrote:
>
> Hi Christoes
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> I picked 100hz for my own reference. I know/notice that there was a
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There is a new verion tested from a few USB2SDR/UHFSDR users having Wide/Narrow FM
deviation and CTCSS. These two are the actual new additions.
The results are good so it will next be released on the downloads list.

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Christos SV1EIA

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652. RE: [UHFSDR] Re: UHFSDR 144 Mhz, 432 Mhz MDS Results.

Yahoo group: UHFSDR
Date: 2012-02-13 21:35:58 UTC
From: MIKE DURKIN
Topic: 635 Message: 652

Nice to hear ...

I just picked up a used Compaq EVO 8000 with dual HT 3.0Ghz processors and 4gb ECC reg ram. Its far better than my pent4 800mhz laptop!!!

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: sv1eia@...
Date: Mon, 13 Feb 2012 13:51:07 +0000
Subject: [UHFSDR] Re: UHFSDR 144 Mhz, 432 Mhz MDS Results.

--- In UHFSDR@yahoogroups.com, w9amr@... wrote:

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> >

> > --- In __UHFSDR@yahoogroups.com_ (mailto:_UHFSDR@yahoogroups.com) _

> (mailto:_UHFSDR@yahoogroups.com_ (mailto:UHFSDR@yahoogroups.com)) , w9amr@

> > wrote:

> > >

> > > Hi Ed

> > >

> > > That would be an amazing about of sensitivity. Sounds card performance

>

> > > would make comparing performance station to station about impossible

> > unless

> > > everyone runs the same soundcard. My best is -123 dbm for 5 db signal

> > above

> > > noise floor. This is with a SDR Widget and signal generator is a

> > IFR1200.

> > > Are you reading DBM level from the signal generator or in the SDR

> > software? I

> > > would not trust the level in the software. I can not even generate a

> > > signal that low.

> > >

> > > Larry W9AMR

> > >

> > >

> > >

> > > 2/9/2012 3:02:21 P.M. Eastern Standard Time, ed.murphy31@ writes:

> > >

> > >

> > >

> > >

> > > Hi All,

> > >

> > > I decided to do a measurement of the MDS of the UHFSDR on 144 Mhz and

> > 432

> > > Mhz. The following results were observed :- -145dbm on both bands.

> > >

> > > Has anyone else got results ? Can we compare ?

> > >

> > > Also, has anyone measured the waveform amplitudes around the DBM Mixer

> > > when in TX mode ? I seem to be lacking in drive to the PA IC. The TX

> > output

> > > power is approximately 30 mW. I have measured the oscillator drive as

> > 400mV

> > > P/P into the DBMs. The TX IQ AF input level is 1 Volt P/P during these

> > > measurements.

> > >

> > > Others have reported 100 mW TX O/P. I would like to see where the

> > > difference is.

> > >

> > > Regards

> > > Ed GM3SBC

> > >

> >

>

653. Re: [UHFSDR] Re: UHFSDR 144 Mhz, 432 Mhz MDS Results.

Yahoo group: UHFSDR
Date: 2012-02-13 22:29:05 UTC
From: w9amr@aol.com
Topic: 635 Message: 653

Hi Mike

I am battling a bit with Win7 64 bit. I can do XP just fine. I just bought a Dell i7 with 8 gig of ram. I will be glad when I get that going. If your using Win7 64 bit and get it going please let me know how it goes.

I have done FM repeater using split VFO and it works fine. The CTCSS version will be awesome! I can't wait! good job!.

Larry W9AMR

In a message dated 2/13/2012 4:36:04 P.M. Eastern Standard Time, Patriot121@... writes:

Nice to hear ...

I just picked up a used Compaq EVO 8000 with dual HT 3.0Ghz processors and 4gb ECC reg ram. Its far better than my pent4 800mhz laptop!!!

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: sv1eia@...
Date: Mon, 13 Feb 2012 13:51:07 +0000
Subject: [UHFSDR] Re: UHFSDR 144 Mhz, 432 Mhz MDS Results.

--- In _UHFSDR@yahoogroups.com_ (mailto:UHFSDR@yahoogroups.com) , w9amr@... wrote:
>
> Hi Christoes
>
> I picked 100hz for my own reference. I know/notice that there was a
> difference in measuring sensitivity with the different band widths. I chose 100hz
> as a standard because I can select 100hz with my R390. Kachina and SDR
> radios. Of all the radios I have I put those as my top 3. And I have a lot of
> radios and have seen about everything else you can think of old and new. I
> use a sinad meter on the other radios to measure MDS and to be fair I
> should use one on the SDR as well instead of relying on the spectral display.
>
> The UHFSDR was paired with a modified MOBO so I had the loses of the FST's
> and BPF in play. I love all the SDR stuff. It is amazing. And I really

> appreciate the work you have done with PSDR! I wish I could figure out
what I
> did with the USB2SDR board I bought! I would really like to try it. I
hope
> to run across it. Sooner then later! Did you release a PSDR version with
> CTCSS and repeater offset yet?

Hi Larry,

The repeater offset can be done with all versions by using the VFOA/VFOB
Tx.
There is a new verion tested from a few USB2SDR/UHFSDR users having
Wide/Narrow FM deviation and CTCSS. These two are the actual new additions.
The results are good so it will next be released on the downloads list.

73,
Christos SV1EIA

>
> Larry W9AMR
>
>
> In a message dated 2/11/2012 4:40:16 A.M. Eastern Standard Time,
> sv1eia@... writes:
>
>
>
>
> Measuring at 100Hz bandwidth will yeld a more than 6dB difference to the
> 500Hz, so if you have -123dB at 100Hz, it will be higher than -117dB in
> 500Hz.
>
> Having said that, indeed the UHFSDR is the most sensitive one since it
has
> a 18dB LNA on its frontend thus it works always pre-amplified. That is
> needed to counter the DBM and FST switch losses and it leaves more gain
above
> them. By the way, after carefull calibration and observation, I'm having
> here with the UHFSDR/USB2SDR combo, a MDS of -130 dB at 500Hz CW.
>
> --- In __UHFSDR@yahoogroups.com_ (mailto:_UHFSDR@yahoogroups.com) _
(mailto:_UHFSDR@yahoogroups.com_ (mailto:UHFSDR@yahoogroups.com)) , w9amr@
> wrote:
> >
> > HI Ed
> >
> > My measurements (as suggested by Christoes earlier) were made in CW at
> > 100hz band width. I would be glad to make any comparison measurements
> that you
> > want but without using the same soundcards my measurements would not
be

> > very useful as a comparison to yours. I have a few projects on the
bench
> at
> > the moment. Towards the end of the weekend I will measure sensitivity
at
> > different frequencies band widths and different signal levels above
the
> noise
> > floor The UHFSDR is the most sensitive RX I have in the shack!
> >
> > Larry W9AMR
> >
> >
> >
> > In a message dated 2/10/2012 5:32:16 A.M. Eastern Standard Time,
> > ed.murphy31@ writes:
> >
> >
> >
> >
> > Hi Larry,
> >
> > Yes I was surprised by the result. First , I am using an HP generator
> with
> > level set at -100 dbm then a series of SMA 18 Ghz attenuators. In this
> way
> > I hope to have removed any attenuator leakage problems. At the level
> > quoted I am getting a clear visual trace on WR Plus. I would think
that
> your
> > result of 5 db S/N at -123dbm is very good. If you wish we could
measure
> at a
> > particular S/N and report back , say 1 db S/N in a 200Hz bandwidth.
> > Regards
> >
> > Ed.
> >
> > --- In ___UHFSDR@yahoogroups.com_ (mailto:__UHFSDR@yahoogroups.com) _
(mailto:__UHFSDR@yahoogroups.com_ (mailto:_UHFSDR@yahoogroups.com)) _
> (mailto:__UHFSDR@yahoogroups.com_ (mailto:_UHFSDR@yahoogroups.com) _
(mailto:_UHFSDR@yahoogroups.com_ (mailto:UHFSDR@yahoogroups.com))) , w9amr@
> > wrote:
> > >
> > > Hi Ed
> > >
> > > That would be an amazing about of sensitivity. Sounds card
performance
>
> > > would make comparing performance station to station about impossible

> > unless
> > > everyone runs the same soundcard. My best is -123 dbm for 5 db
signal
> > above
> > > noise floor. This is with a SDR Widget and signal generator is a
> > IFR1200.
> > > Are you reading DBM level from the signal generator or in the SDR
> > software? I
> > > would not trust the level in the software. I can not even generate a
> > > signal that low.
> > >
> > > Larry W9AMR
> > >
> > >
> > >
> > > 2/9/2012 3:02:21 P.M. Eastern Standard Time, ed.murphy31@ writes:
> > >
> > >
> > >
> > >
> > > Hi All,
> > >
> > > I decided to do a measurement of the MDS of the UHFSDR on 144 Mhz
and
> > 432
> > > Mhz. The following results were observed :- -145dbm on both bands.
> > >
> > > Has anyone else got results ? Can we compare ?
> > >
> > > Also, has anyone measured the waveform amplitudes around the DBM
Mixer
> > > when in TX mode ? I seem to be lacking in drive to the PA IC. The TX

> > output
> > > power is approximately 30 mW. I have measured the oscillator drive
as
> > 400mV
> > > P/P into the DBMs. The TX IQ AF input level is 1 Volt P/P during
these
> > > measurements.
> > >
> > > Others have reported 100 mW TX O/P. I would like to see where the
> > > difference is.
> > >
> > > Regards
> > > Ed GM3SBC
> > >
> >
>

654. MPLPF(100W Low Pass Filter)

Yahoo group: UHFSDR
Date: 2012-02-14 01:49:34 UTC
From: brainerdd
Topic: 654 Message: 654

I received 100 MPLPF boards today. It appears that if you are going to use the MPLPF with a SDR-Widget, you will have to reverse the order of the filters installed on the board. This is still in testing. The layout for all seven filters is identical, so it doesn't matter what order they are in. But, it must match the I2C software you are using.
I am procuring parts for parts kits. I will update the web page when I have the rest of the parts on hand.

Dave - WB6DHW
<http://wb6dhw>

655. Re: [UHFSDR] MPLPF(100W Low Pass Filter)

Yahoo group: UHFSDR
Date: 2012-02-14 05:41:50 UTC
From: w9amr@aol.com
Topic: 654 Message: 655

Hi Dave

I worked with Chuck WA6LTV to help him sort his out. Another option would be to lift the gate connections or cut the foils and reroute the connections with jumpers. Not as pretty but it might be simpler then reversing the filter order. If they want to use it later with one of your projects it would be easier to reverse. It is up to the builder as to what he is more comfortable with.

FWIW I have 2 of these boards and they are very high quality. All of Dave's boards and designs are! I doubt you will be disappointed! I love his boards. End of commercial! (Unpaid of course).

Larry W9AMR

In a message dated 2/13/2012 8:49:38 P.M. Eastern Standard Time, dave@... writes:

I received 100 MPLPF boards today. It appears that if you are going to use the MPLPF with a SDR-Widget, you will have to reverse the order of the filters installed on the board. This is still in testing. The layout for all seven filters is identical, so it doesn't matter what order they are in. But, it must match the I2C software you are using.
I am procuring parts for parts kits. I will update the web page when I have the rest of the parts on hand.

Dave - WB6DHW
<_http://wb6dhw_ (http://wb6dhw/) >

656. New file uploaded to UHFSDR

Yahoo group: UHFSDR
Date: 2012-02-14 09:32:08 UTC
From: UHFSDR@yahoogroups.com
Topic: 2 Message: 656

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the UHFSDR
group.

File : /MPLPF/PC8574 Bits.xls
Uploaded by : brainerdd <dave@...>
Description : Mobo and MPLPF 8574 Bits

You can access this file at the URL:
http://groups.yahoo.com/group/UHFSDR/files/MPLPF/PC8574%20Bits.xls

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

brainerdd <dave@...>

657. MPLPF Filter Positions

Yahoo group: UHFSDR
Date: 2012-02-14 09:47:01 UTC
From: brainerdd
Topic: 657 Message: 657

I found the Mobo description of the LPF switching. I think this is the same as the SDR-Widget switching(correct me if not true). I uploaded a file showing the bit assignments for the Mobo vs the bit assignments for the MPLPF filters.
The bit number mismatch is not the only problem. My published design for the MPLPF uses one filter for 20 and 30 meters while the Mobo uses separate filters. The Mobo has no 6M filter, the MPLPF does.
One could, of course, re-design any of the MPLPF filters to cover any band. The board has spaces for more than one capacitor at each location. There are also pads for caps across the coils for elliptical filters. The layout for all seven filters is identical.
I also don't know if a low or a high turns on the Mobo filters.
I also don't know how PowerSDR-IQ does filter switching.
All but the 20/30 meter filters are based on built and tested filters by Wolfgang,DL4FDD. He had a separate 20 and 30 meter filter. I combined them to allow both a 160 meter and a 6 meter filter.

Dave - WB6DHW
<http://wb6dhw.com>

658. Re: [UHFSDR] MPLPF Filter Positions

Yahoo group: UHFSDR
Date: 2012-02-14 12:12:14 UTC
From: w9amr@aol.com
Topic: 657 Message: 658

Hi Dave.

The MOBO and the Widget share the same filter switching order. But on a good note they are setup to switch up to 8 filters. The builder could just omit the 6m filter because the MOBO/NG doesn't cover 6m. and should be able to set the filter points accordingly.

Larry W9AMR

In a message dated 2/14/2012 4:47:06 A.M. Eastern Standard Time, dave@wb6dhw.com writes:

I found the Mobo description of the LPF switching. I think this is the same as the SDR-Widget switching(correct me if not true). I uploaded a file showing the bit assignments for the Mobo vs the bit assignments for the MPLPF filters.
The bit number mismatch is not the only problem. My published design for the MPLPF uses one filter for 20 and 30 meters while the Mobo uses separate filters. The Mobo has no 6M filter, the MPLPF does.
One could, of course, re-design any of the MPLPF filters to cover any band. The board has spaces for more than one capacitor at each location. There are also pads for caps across the coils for elliptical filters. The layout for all seven filters is identical.
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All but the 20/30 meter filters are based on built and tested filters by Wolfgang,DL4FDD. He had a separate 20 and 30 meter filter. I combined them to allow both a 160 meter and a 6 meter filter.

Dave - WB6DHW
<_http://wb6dhw.com_ (http://wb6dhw.com/) >

659. RE: [UHFSDR] MPLPF Filter Positions

Yahoo group: UHFSDR
Date: 2012-02-14 16:28:43 UTC
From: The Silver Fox
Topic: 657 Message: 659
Attachments: 2 described; binary payloads are missing from this source WARC

What prevents the mobo from being able to handle any frequency?

73’s

Alan –W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of w9amr@...
Sent: Tuesday, February 14, 2012 4:12 AM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] MPLPF Filter Positions

Hi Dave.

The MOBO and the Widget share the same filter switching order. But on a good note they are setup to switch up to 8 filters. The builder could just omit the 6m filter because the MOBO/NG doesn't cover 6m. and should be able to set the filter points accordingly.

Larry W9AMR

In a message dated 2/14/2012 4:47:06 A.M. Eastern Standard Time, dave@... writes:

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Dave - WB6DHW
<http://wb6dhw.com <http://wb6dhw.com/> >

660. Re: [UHFSDR] MPLPF Filter Positions

Yahoo group: UHFSDR
Date: 2012-02-14 22:11:14 UTC
From: w9amr@aol.com
Topic: 657 Message: 660

Hi Alan

The BCD counting counts backwards between the 2 systems. The filter for the lowest frequency starts a 000 on Dave's board starts the highest frequency starts 000. When the Widget selects next filter it is 001. Dave's board looks for the controller to select 011.

The Widget firmware could be modified to handle the reverse order. I just don't know if the programmers want to add another menu selection. I think if they did it would make the widget more universal. But it's up to the programmers.

Larry W9AMR

In a message dated 2/14/2012 11:28:47 A.M. Eastern Standard Time, alan.r.hill@... writes:

What prevents the mobo from being able to handle any frequency?
73’s
Alan –W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of w9amr@...
Sent: Tuesday, February 14, 2012 4:12 AM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] MPLPF Filter Positions

Hi Dave.

The MOBO and the Widget share the same filter switching order. But on a good note they are setup to switch up to 8 filters. The builder could just omit the 6m filter because the MOBO/NG doesn't cover 6m. and should be able to set the filter points accordingly.

Larry W9AMR

In a message dated 2/14/2012 4:47:06 A.M. Eastern Standard Time, dave@... writes:

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are also pads for caps across the coils for elliptical filters. The layout for all seven filters is identical.
I also don't know if a low or a high turns on the Mobo filters.
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All but the 20/30 meter filters are based on built and tested filters by Wolfgang,DL4FDD. He had a separate 20 and 30 meter filter. I combined them to allow both a 160 meter and a 6 meter filter.

Dave - WB6DHW
<_http://wb6dhw.com_ (http://wb6dhw.com/) >

661. Re: [UHFSDR] MPLPF Filter Positions

Yahoo group: UHFSDR
Date: 2012-02-14 22:37:11 UTC
From: Dave
Topic: 657 Message: 661

Larry:
Are the switch points on the mobo fixed or is their a frequency table. The the transition points are not fixed, I could provide a schematic with the filters in reverse order. Just involves changing parts designations on the schematic.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/14/2012 2:11 PM, w9amr@... wrote:
>
> Hi Alan
> The BCD counting counts backwards between the 2 systems. The filter
> for the lowest frequency starts a 000 on Dave's board starts the
> highest frequency starts 000. When the Widget selects next filter it
> is 001. Dave's board looks for the controller to select 011.
> The Widget firmware could be modified to handle the reverse order. I
> just don't know if the programmers want to add another menu selection.
> I think if they did it would make the widget more universal. But it's
> up to the programmers.
> Larry W9AMR
> In a message dated 2/14/2012 11:28:47 A.M. Eastern Standard Time,
> alan.r.hill@... writes:
>
> What prevents the mobo from being able to handle any frequency?
>
> 73’s
>
> Alan –W6ARH
>
> *From:*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] *On
> Behalf Of *w9amr@...
> *Sent:* Tuesday, February 14, 2012 4:12 AM
> *To:* UHFSDR@yahoogroups.com
> *Subject:* Re: [UHFSDR] MPLPF Filter Positions
>
> Hi Dave.
>
> The MOBO and the Widget share the same filter switching order.
> But on a good note they are setup to switch up to 8 filters. The
> builder could just omit the 6m filter because the MOBO/NG doesn't
> cover 6m. and should be able to set the filter points accordingly.
>
> Larry W9AMR
>

> In a message dated 2/14/2012 4:47:06 A.M. Eastern Standard Time,
> dave@... writes:
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> I found the Mobo description of the LPF switching. I think
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> Mobo vs the bit assignments for the MPLPF filters.
> The bit number mismatch is not the only problem. My published
> design for the MPLPF uses one filter for 20 and 30 meters
> while the Mobo uses separate filters. The Mobo has no 6M
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> cover any band. The board has spaces for more than one
> capacitor at each location. There are also pads for caps
> across the coils for elliptical filters. The layout for all
> seven filters is identical.
> I also don't know if a low or a high turns on the Mobo filters.
> I also don't know how PowerSDR-IQ does filter switching.
> All but the 20/30 meter filters are based on built and tested
> filters by Wolfgang,DL4FDD. He had a separate 20 and 30 meter
> filter. I combined them to allow both a 160 meter and a 6
> meter filter.
>
> Dave - WB6DHW
> <http://wb6dhw.com <http://wb6dhw.com/>>
>
>
> ,_._,___
> ~-|**|PrettyHtmlEnd|**|-~ ~-|**|PrettyHtmlStart|**|-~

662. Re: [UHFSDR] MPLPF Filter Positions

Yahoo group: UHFSDR
Date: 2012-02-14 23:03:57 UTC
From: w9amr@aol.com
Topic: 657 Message: 662

Hi Dave

There is a frequency table. The switch points are adjustable. I have tried in the past to set the next logically selected filter to a lower frequency instead of higher and it did not like it. So setting the crossover points in reverse doesn't seem to work. I will recheck and if it is still that way I will ask Alex or one of the coders what can be done.

Larry W9AMR

In a message dated 2/14/2012 5:37:43 P.M. Eastern Standard Time, dave@... writes:

Larry:
Are the switch points on the mobo fixed or is their a frequency table.
The the transition points are not fixed, I could provide a schematic with the filters in reverse order. Just involves changing parts designations on the schematic.

Dave - WB6DHW
<http://wb6dhw.com> (http://wb6dhw.com/)

On 2/14/2012 2:11 PM, _w9amr@..._ (mailto:w9amr@...) wrote:

Hi Alan

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The Widget firmware could be modified to handle the reverse order. I just don't know if the programmers want to add another menu selection. I think if they did it would make the widget more universal. But it's up to the programmers.

Larry W9AMR

In a message dated 2/14/2012 11:28:47 A.M. Eastern Standard Time, _alan.r.hill@..._ (mailto:alan.r.hill@...) writes:

What prevents the mobo from being able to handle any frequency?
73’s
Alan –W6ARH

From: _UHFSDR@yahoogroups.com_ (mailto:UHFSDR@yahoogroups.com) [_mailto:UHFSDR@yahoogroups.com_ (mailto:UHFSDR@yahoogroups.com)] On Behalf Of _w9amr@..._ (mailto:w9amr@...)

Sent: Tuesday, February 14, 2012 4:12 AM
To: _UHFSDR@yahoogroups.com_ (mailto:UHFSDR@yahoogroups.com)
Subject: Re: [UHFSDR] MPLPF Filter Positions

Hi Dave.

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Larry W9AMR

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Dave - WB6DHW
<_http://wb6dhw.com_ (http://wb6dhw.com/) >

,_._,___ ~-|**|PrettyHtmlEnd|**|-~ ~-|**|PrettyHtmlStart|**|-~

663. Re: [UHFSDR] MPLPF Filter Positions

Yahoo group: UHFSDR
Date: 2012-02-14 23:19:39 UTC
From: Dave
Topic: 657 Message: 663

Larry
That is good. With adjustable switch points then all we need to do
is to reverse the filter order on the MPLPF. Easy if not yet built,
harder if already built. I will revise the schematic(just involves
changing the values around). Not changes to the boards.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/14/2012 3:03 PM, w9amr@... wrote:
>
> Hi Dave
> There is a frequency table. The switch points are adjustable. I have
> tried in the past to set the next logically selected filter to a lower
> frequency instead of higher and it did not like it. So setting the
> crossover points in reverse doesn't seem to work. I will recheck
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> In a message dated 2/14/2012 5:37:43 P.M. Eastern Standard Time,
> dave@... writes:
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> Larry:
> Are the switch points on the mobo fixed or is their a frequency
> table. The the transition points are not fixed, I could provide a
> schematic with the filters in reverse order. Just involves
> changing parts designations on the schematic.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 2/14/2012 2:11 PM, w9amr@... wrote:
>
>> Hi Alan
>> The BCD counting counts backwards between the 2 systems. The
>> filter for the lowest frequency starts a 000 on Dave's board
>> starts the highest frequency starts 000. When the Widget
>> selects next filter it is 001. Dave's board looks for the
>> controller to select 011.
>> The Widget firmware could be modified to handle the reverse
>> order. I just don't know if the programmers want to add another
>> menu selection. I think if they did it would make the widget more
>> universal. But it's up to the programmers.
>> Larry W9AMR
>> In a message dated 2/14/2012 11:28:47 A.M. Eastern Standard Time,

>> alan.r.hill@... writes:
>>
>> What prevents the mobo from being able to handle any frequency?
>>
>> 73’s
>>
>> Alan –W6ARH
>>
>> *From:*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
>> *On Behalf Of *w9amr@...
>> *Sent:* Tuesday, February 14, 2012 4:12 AM
>> *To:* UHFSDR@yahoogroups.com
>> *Subject:* Re: [UHFSDR] MPLPF Filter Positions
>>
>> Hi Dave.
>>
>> The MOBO and the Widget share the same filter switching
>> order. But on a good note they are setup to switch up to 8
>> filters. The builder could just omit the 6m filter because
>> the MOBO/NG doesn't cover 6m. and should be able to set the
>> filter points accordingly.
>>
>> Larry W9AMR
>>
>> In a message dated 2/14/2012 4:47:06 A.M. Eastern Standard
>> Time, dave@... writes:
>>
>> I found the Mobo description of the LPF switching. I
>> think this is the same as the SDR-Widget
>> switching(correct me if not true). I uploaded a file
>> showing the bit assignments for the Mobo vs the bit
>> assignments for the MPLPF filters.
>> The bit number mismatch is not the only problem. My
>> published design for the MPLPF uses one filter for 20 and
>> 30 meters while the Mobo uses separate filters. The Mobo
>> has no 6M filter, the MPLPF does.
>> One could, of course, re-design any of the MPLPF filters
>> to cover any band. The board has spaces for more than one
>> capacitor at each location. There are also pads for caps
>> across the coils for elliptical filters. The layout for
>> all seven filters is identical.
>> I also don't know if a low or a high turns on the Mobo
>> filters.
>> I also don't know how PowerSDR-IQ does filter switching.
>> All but the 20/30 meter filters are based on built and
>> tested filters by Wolfgang,DL4FDD. He had a separate 20
>> and 30 meter filter. I combined them to allow both a 160
>> meter and a 6 meter filter.
>>
>> Dave - WB6DHW

```
>> <http://wb6dhw.com <http://wb6dhw.com/>>
>>
>> ,_._,___ ~-|**|PrettyHtmlEnd|**|-~ ~-|**|PrettyHtmlStart|**|-~
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>
```

664. Re: [UHFSDR] MPLPF Filter Positions

Yahoo group: UHFSDR
Date: 2012-02-15 01:23:51 UTC
From: w9amr@aol.com
Topic: 657 Message: 664

Opps Sent other by mistake

Hi Dave

2 BOM's would truly make things simple. If anyone gets confused with setting crossover points I am glad to help them with the settings. I really enjoy your projects. Keep up the good work!

Larry W9AMR

In a message dated 2/14/2012 6:20:10 P.M. Eastern Standard Time, dave@... writes:

Larry
That is good. With adjustable switch points then all we need to do is to reverse the filter order on the MPLPF. Easy if not yet built, harder if already built. I will revise the schematic(just involves changing the values around). Not changes to the boards.

Dave - WB6DHW
<http://wb6dhw.com> (http://wb6dhw.com/)

On 2/14/2012 3:03 PM, _w9amr@..._ (mailto:w9amr@...) wrote:

Hi Dave

There is a frequency table. The switch points are adjustable. I have tried in the past to set the next logically selected filter to a lower frequency instead of higher and it did not like it. So setting the crossover points in reverse doesn't seem to work. I will recheck and if it is still that way I will ask Alex or one of the coders what can be done.

Larry W9AMR

In a message dated 2/14/2012 5:37:43 P.M. Eastern Standard Time, _dave@..._ (mailto:dave@...) writes:

Larry:
Are the switch points on the mobo fixed or is their a frequency table.
The the transition points are not fixed, I could provide a schematic with the filters in reverse order. Just involves changing parts designations on the schematic.

Dave - WB6DHW
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On 2/14/2012 2:11 PM, _w9amr@..._ (mailto:w9amr@...) wrote:

Hi Alan

The BCD counting counts backwards between the 2 systems. The filter for the lowest frequency starts a 000 on Dave's board starts the highest frequency starts 000. When the Widget selects next filter it is 001. Dave's board looks for the controller to select 011.

The Widget firmware could be modified to handle the reverse order. I just don't know if the programmers want to add another menu selection. I think if they did it would make the widget more universal. But it's up to the programmers.

Larry W9AMR

In a message dated 2/14/2012 11:28:47 A.M. Eastern Standard Time, _alan.r.hill@..._ (mailto:alan.r.hill@gmail.com) writes:

What prevents the mobo from being able to handle any frequency?
73’s
Alan –W6ARH

From: _UHFSDR@yahoogroups.com_ (mailto:UHFSDR@yahoogroups.com) [_mailto:UHFSDR@yahoogroups.com_ (mailto:UHFSDR@yahoogroups.com)] On Behalf Of _w9amr@..._ (mailto:w9amr@...)
Sent: Tuesday, February 14, 2012 4:12 AM
To: _UHFSDR@yahoogroups.com_ (mailto:UHFSDR@yahoogroups.com)
Subject: Re: [UHFSDR] MPLPF Filter Positions

Hi Dave.

The MOBO and the Widget share the same filter switching order. But on a good note they are setup to switch up to 8 filters. The builder could just omit the 6m filter because the MOBO/NG doesn't cover 6m. and should be able to set the filter points accordingly.

Larry W9AMR

In a message dated 2/14/2012 4:47:06 A.M. Eastern Standard Time, _dave@..._ (mailto:dave@...) writes:

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The bit number mismatch is not the only problem. My published design for the MPLPF uses one filter for 20 and 30 meters while the Mobo uses separate filters. The Mobo has no 6M filter, the MPLPF does.
One could, of course, re-design any of the MPLPF filters to cover any band. The board has spaces for more than one capacitor at each location. There are also pads for caps across the coils for elliptical filters. The layout for all seven filters is identical.
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Dave - WB6DHW
<_http://wb6dhw.com_ (http://wb6dhw.com/) >

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665. Re: [UHFSDR] MPLPF Filter Positions

Yahoo group: UHFSDR
Date: 2012-02-15 05:18:31 UTC
From: Chuck Nolin
Topic: 657 Message: 665

Hi Dave,

This is the idea I had in mind, if not built easy, but could build the board in reverse order other wise.

Perhaps Alex or Loftur can change the order of the filter by 180 deg, in the Widget and make it a selectable choice for your filter...

I wanted to check with you first, to see if you had come across the issue yet, and had a simple fix before asking them?

I will hook your, now completed, amp and filter, up to a larger copper, aluminum sandwich cooler
and go for full power out this time. At 30 to 40 watts everything is going very well. Can't wait to put both in a
nice enclosure and put it to use...

Great Job on the new items....

Chuck Nolin
WA6LTV/4

----- Original Message -----
From: "Dave" <dave@...>
To: UHFSDR@yahoogroups.com
Sent: Tuesday, February 14, 2012 6:19:39 PM
Subject: Re: [UHFSDR] MPLPF Filter Positions

Larry
That is good. With adjustable switch points then all we need to do is to reverse the filter order on the MPLPF. Easy if not yet built, harder if already built. I will revise the schematic(just involves changing the values around). Not changes to the boards.

Dave - WB6DHW
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On 2/14/2012 3:03 PM, w9amr@aol.com wrote:

Hi Dave

There is a frequency table. The switch points are adjustable. I have tried in the past to set the next logically selected filter to a lower frequency instead of higher and it did not like it. So setting the crossover points in reverse doesn't seem to work. I will recheck and if it is still that way I will ask Alex or one of the coders what can be done.

Larry W9AMR

In a message dated 2/14/2012 5:37:43 P.M. Eastern Standard Time, dave@... writes:

Larry:
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On 2/14/2012 2:11 PM, w9amr@aol.com wrote:

Hi Alan

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The Widget firmware could be modified to handle the reverse order. I just don't know if the programmers want to add another menu selection. I think if they did it would make the widget more universal. But it's up to the programmers.

Larry W9AMR

In a message dated 2/14/2012 11:28:47 A.M. Eastern Standard Time, alan.r.hill@... writes:

What prevents the mobo from being able to handle any frequency?

73’s

Alan –W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of w9amr@...
Sent: Tuesday, February 14, 2012 4:12 AM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] MPLPF Filter Positions

Hi Dave.

The MOBO and the Widget share the same filter switching order. But on a good note they are setup to switch up to 8 filters. The builder could just omit the 6m filter because the MOBO/NG doesn't cover 6m. and should be able to set the filter points accordingly.

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Dave - WB6DHW
< http://wb6dhw.com >

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666. Re: [UHFSDR] MPLPF Filter Positions

Yahoo group: UHFSDR
Date: 2012-02-15 06:14:49 UTC
From: Dave
Topic: 657 Message: 666

Larry:
That is no problem. I can easily(will take a bit of time) move the values around and save as a different file, then make another BOM(one click in KICAD).

Dave - WB6DHW
<http://wb6dhw.com>

On 2/14/2012 5:23 PM, w9amr@... wrote:

Opps Sent other by mistake
Hi Dave
2 BOM's would truly make things simple. If anyone gets confused with setting crossover points I am glad to help them with the settings. I really enjoy your projects. Keep up the good work!
Larry W9AMR
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> setting the crossover points in reverse doesn't seem to work. I
> will recheck and if it is still that way I will ask Alex or one of
> the coders what can be done.
> Larry W9AMR

667. New file uploaded to UHFSDR

Yahoo group: UHFSDR
Date: 2012-02-15 08:20:45 UTC
From: UHFSDR@yahoogroups.com
Topic: 2 Message: 667

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the UHFSDR
group.

File : /MPLPF/MPLPF-Mobo.pdf
Uploaded by : brainerdd <dave@...>
Description : Schematic setup for Mobo

You can access this file at the URL:
http://groups.yahoo.com/group/UHFSDR/files/MPLPF/MPLPF-Mobo.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

brainerdd <dave@...>

668. New file uploaded to UHFSDR

Yahoo group: UHFSDR
Date: 2012-02-15 08:34:15 UTC
From: UHFSDR@yahoogroups.com
Topic: 2 Message: 668

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the UHFSDR
group.

File : /MPLPF/MPLPF-Mobo.pdf
Uploaded by : brainerdd <dave@...>
Description : Schematic set up for Mobo

You can access this file at the URL:
http://groups.yahoo.com/group/UHFSDR/files/MPLPF/MPLPF-Mobo.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

brainerdd <dave@...>

669. Si570 control from PowerSDR

Yahoo group: UHFSDR
Date: 2012-02-17 10:27:56 UTC
From: tony_g3ovh
Topic: 669 Message: 669

I have just finished building my kit and have a problem controlling the Si570 from the parallel port. If I change the tuning slowly I can get the Si570 to lock, but slightly too fast and it resets to its start frequency. Are there any tweaks to the LPT driver that can fix this - possibly slowing the I2C clock?
Tony

670. Re: Si570 control from PowerSDR

Yahoo group: UHFSDR
Date: 2012-02-17 14:34:14 UTC
From: sv1eia
Topic: 669 Message: 670

Tony,

You need to see if the I2C wiring is ok.
Check the cables you use.
Make small cables and avoid long lengths.

Regardless of how fast you tune, the I2C works at a high speed,
if you tune by dragging the mouse then it sends more I2C 'tune' commands but always at the same bit rate, so its not the I2C frequency the problem you have, but I guess some sort of wiring/electrical as I mention above.
It could even be a cold solder on Si570 or the ADuM.

Just my 2c
Christos SV1EIA

--- In UHFSDR@yahoogroups.com, "tony_g3ovh" <tony@...> wrote:
>
> I have just finished building my kit and have a problem controlling the Si570 from the parallel port. If I change the tuning slowly I can get the Si570 to lock, but slightly too fast and it resets to its start frequency. Are there any tweaks to the LPT driver that can fix this - possibly slowing the I2C clock?
> Tony
>

671. QRP2000 & UHFSDR

Yahoo group: UHFSDR
Date: 2012-02-18 05:32:41 UTC
From: MIKE DURKIN
Topic: 671 Message: 671

Ill ask this question over here first ...

Im trying to use a QRP2000 to controll the Si570 with powerSdr-I/Q - and guessing that I/Q has no support for QRP2000. No?

Im going to try powerSdr next .... looking for ctss with FM repeater offset ...

Mike KC7NOA

672. Re: [UHFSDR] QRP2000 & UHFSDR

Yahoo group: UHFSDR
Date: 2012-02-18 05:45:32 UTC
From: w9amr@aol.com
Topic: 671 Message: 672

Hi Mike

The QRP2000 should be able to control the Si570 but I don't know about the divide by 2 divider that the UHFSDR uses. Read the info. It is late for me to absorb the info this late LOL. I don't want to mislead you! lol. It has nothing to do with I&Q. That is the soundcard end of things.

The QRP2000 is a controller for the Si570 and it has a Si570 on the board The Si570 should be able to be left off and the I2C wired to an external Si570.

Larry W9AMR

In a message dated 2/18/2012 12:32:45 A.M. Eastern Standard Time, Patriot121@... writes:

Ill ask this question over here first ...

Im trying to use a QRP2000 to controll the Si570 with powerSdr-I/Q - and guessing that I/Q has no support for QRP2000. No?

Im going to try powerSdr next .... looking for ctss with FM repeater offset ...

Mike KC7NOA

673. RE: [UHFSDR] QRP2000 & UHFSDR

Yahoo group: UHFSDR
Date: 2012-02-18 05:52:25 UTC
From: MIKE DURKIN
Topic: 671 Message: 673

Late here too ....

Im not really sure of the difference between PowerSDR(SR40) and PowerSDR-I/Q ...

But the instructions for PSDR(SR40) shows a screen shot if I think is the QRP2000 USB controller ... I hope!!

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: w9amr@...
Date: Sat, 18 Feb 2012 00:45:32 -0500
Subject: Re: [UHFSDR] QRP2000 & UHFSDR

Hi Mike

The QRP2000 should be able to control the Si570 but I don't know about the divide by 2 divider that the UHFSDR uses. Read the info. It is late for me to absorb the info this late LOL. I don't want to mislead you! lol. It has nothing to do with I&Q. That is the soundcard end of things.

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Larry W9AMR

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Mike KC7NOA

674. Re: [UHFSDR] QRP2000 & UHFSDR

Yahoo group: UHFSDR
Date: 2012-02-18 06:02:23 UTC
From: w9amr@aol.com
Topic: 671 Message: 674

I just notice I dropped the ball on the I/Q part. LOL I told ya it was late!

I have used PSDR v1.12 the most. Some of the Versions tune in steps like Rocky. I haven't played much with the other versions. How is your UHFSDR project going? Hope all it well over there. I think I talked to your dad a week or so ago about interfacing some stuff. How is he going?

Take care!

Larry W9AMR

In a message dated 2/18/2012 12:54:03 A.M. Eastern Standard Time, Patriot121@... writes:

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To: UHFSDR@yahoogroups.com
From: w9amr@...
Date: Sat, 18 Feb 2012 00:45:32 -0500
Subject: Re: [UHFSDR] QRP2000 & UHFSDR

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Mike KC7NOA

675. RE: [UHFSDR] QRP2000 & UHFSDR

Yahoo group: UHFSDR
Date: 2012-02-18 06:12:45 UTC
From: MIKE DURKIN
Topic: 671 Message: 675

My dad?
KD0DXX?

Really?

To: UHFSDR@yahoogroups.com
From: w9amr@...
Date: Sat, 18 Feb 2012 01:02:23 -0500
Subject: Re: [UHFSDR] QRP2000 & UHFSDR

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Take care!

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To: UHFSDR@yahoogroups.com
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Date: Sat, 18 Feb 2012
00:45:32 -0500
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Mike KC7NOA

676. Re: [UHFSDR] QRP2000 & UHFSDR

Yahoo group: UHFSDR
Date: 2012-02-18 07:12:21 UTC
From: w9amr@aol.com
Topic: 671 Message: 676

I may be confused(often am) I might be mistaken.

Larry W9AMR

In a message dated 2/18/2012 1:12:48 A.M. Eastern Standard Time,
Patriot121@msn.com writes:

My dad?
KD0DXX?

Really?

To: UHFSDR@yahoogroups.com
From: w9amr@...
Date: Sat, 18 Feb 2012 01:02:23 -0500
Subject: Re: [UHFSDR] QRP2000 & UHFSDR

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Mike KC7NOA

677. Re: QRP2000 & UHFSDR

Yahoo group: UHFSDR
Date: 2012-02-18 08:38:51 UTC
From: sv1eia
Topic: 671 Message: 677

Mike,

Here is some info for your setup, you posted that over there a couple of days ago
-> http://groups.yahoo.com/group/powersdr-iq/message/2299

73,
Christos SV1EIA

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
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678. Re: Si570 control from PowerSDR

Yahoo group: UHFSDR
Date: 2012-02-18 11:23:01 UTC
From: tony_g3ovh
Topic: 669 Message: 678

Hi Christos

Thanks for your suggestions. However, I have looked at the waveforms at the contacts on the Si570, and see no problem there - full 3.3V swing and good risetimes with the data changing , so there are no "dry joints" etc on the way there.
You might be right about the cable length - I have about 1.5m of unscreened wire from the UHFSDR to the parallel port on the back of the PC - I am not sure how critical are the I2C signals.
On my next test I seem to have got it working, but it seems that on each power up of the circuit it may respond or not, so I wonder if it is possible to get the Si570 into a reset condition which it doesn't want to come out of.

Tony

--- In UHFSDR@yahoogroups.com, "sv1eia" <sv1eia@...> wrote:
>
> Tony,
>
> You need to see if the I2C wiring is ok.
> Check the cables you use.
> Make small cables and avoid long lengths.
>
> Regardless of how fast you tune, the I2C works at a high speed,
> if you tune by dragging the mouse then it sends more I2C 'tune' commands but always at the same bit rate, so its not the I2C frequency the problem you have, but I guess some sort of wiring/electrical as I mention above.
> It could even be a cold solder on Si570 or the ADuM.
>
> Just my 2c
> Christos SV1EIA
>
>
> --- In UHFSDR@yahoogroups.com, "tony_g3ovh" <tony@> wrote:
> >
> > I have just finished building my kit and have a problem controlling the Si570 from the parallel port. If I change the tuning slowly I can get the Si570 to lock, but slightly too fast and it resets to its start frequency. Are there any tweaks to the LPT driver that can fix this - possibly slowing the I2C clock?
> > Tony
> >
>

679. Re: Si570 control from PowerSDR

Yahoo group: UHFSDR
Date: 2012-02-18 11:40:08 UTC
From: sv1eia
Topic: 669 Message: 679

> You might be right about the cable length - I have about 1.5m of unscreened wire from the UHFSDR to the parallel port on the back of the PC - I am not sure how critical are the I2C signals.

Its a miracle that it even worked for a while :-))

-> http://www.classic.nxp.com/acrobat_download2/literature/9398/39340011.pdf

-> http://ics.nxp.com/support/documents/interface/pdf/i2c.clock.speed.calculator.pdf

680. Re: Si570 control from PowerSDR

Yahoo group: UHFSDR
Date: 2012-02-18 14:29:29 UTC
From: tony_g3ovh
Topic: 669 Message: 680

Hi Christos

Thanks for the clock speed document - looks like i should at least be using twisted pairs for the clock and data, although the document implies that you can use as much as a km of cable with the right drivers.
In my original post I was asking about driver tweaks. I notice there is a parallel port delay parameter in powersdr-iq. Can this in some way control I2C bus speed?

Tony

--- In UHFSDR@yahoogroups.com, "sv1eia" <sv1eia@...> wrote:
>
>
>
> > You might be right about the cable length - I have about 1.5m of unscreened wire from the UHFSDR to the parallel port on the back of the PC - I am not sure how critical are the I2C signals.
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> -> http://www.classic.nxp.com/acrobat_download2/literature/9398/39340011.pdf
>
> -> http://ics.nxp.com/support/documents/interface/pdf/i2c.clock.speed.calculator.pdf
>

681. Sound cards and PowerSDR-IQ

Yahoo group: UHFSDR
Date: 2012-02-18 14:39:18 UTC
From: tony_g3ovh
Topic: 681 Message: 681

I am struggling presently to understand how the line in/line out/ microphone etc all relate. I have a PC with internal sound card and an external Creative SoundBlaster USB unit. I am using the SoundBlaster for IQ input because it is much quieter than the internal card, and I am using the internal sound card for speaker or phones o/p. So far so good. But when I want to transmit, if I plug the UHFSDR line in to the line out of the PC, it mutes the speaker o/p. Various combinations of microphone i/p will appear in the received audio. I cannot get PowerSDR-IQ to manage the interfaces when switching from RX to TX independently of settings on the AC47 mixer or the SoundBlaster mixer. I have so far not been able to find a setup guide.
I can see why people are using dedicated USB2SDR cards etc. Help gratefully received.

Tony

682. Re: Si570 control from PowerSDR

Yahoo group: UHFSDR
Date: 2012-02-18 14:49:14 UTC
From: sv1eia
Topic: 669 Message: 682

The chips that mainly used in homebrew for I2C, are for very short distances, most likely on the same pcb, or with wiring caution, on pcb to pcb.

The second doc shows you that if you want to move on with cables, then you should have appropriate 'drivers/buffers' for that task.

Its not just the levels as you mentioned in a previous post that need conditioning, it is overall the timing and synchronization of SCL/SDA pulses since their 'timed' difference is what makes the protocol work. With large cables and more specifically, with the introduced long wire capacitance, the signals loose their exact timing even though they have proper levels.

The port delay is not for that purpose, it was used for the SDR1K LPT I/F.

--- In UHFSDR@yahoogroups.com, "tony_g3ovh" <tony@...> wrote:
>
> Hi Christos
>
> Thanks for the clock speed document - looks like i should at least be using twisted pairs for the clock and data, although the document implies that you can use as much as a km of cable with the right drivers.
> In my original post I was asking about driver tweaks. I notice there is a parallel port delay parameter in powersdr-iq. Can this in some way control I2C bus speed?
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> Tony
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> --- In UHFSDR@yahoogroups.com, "sv1eia" <sv1eia@> wrote:
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> > > You might be right about the cable length - I have about 1.5m of unscreened wire from the UHFSDR to the parallel port on the back of the PC - I am not sure how critical are the I2C signals.
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> > -> http://ics.nxp.com/support/documents/interface/pdf/i2c.clock.speed.calculator.pdf
> >
>

683. Re: Si570 control from PowerSDR

Yahoo group: UHFSDR
Date: 2012-02-18 16:03:34 UTC
From: Jeff Gray
Topic: 669 Message: 683

On most computer cables, the I/O lines are shielded separately. If the shield on both lines is not connected to ground, it is possibly being faulted by cross talk between the I/O lines. The higher the data rate the worse the cross talk gets.

684. full vs mini kit

Yahoo group: UHFSDR
Date: 2012-02-18 20:25:36 UTC
From: MIKE DURKIN
Topic: 684 Message: 684

Im liking the full kit layout compared to partial an rest from where ever

..

Finding parts in the full kit seems much faster than the pile of stuff (most of which is from digikey).....

Just a whine from me,.....

Mike KC7NOA

685. RE: [UHFSDR] full vs mini kit

Yahoo group: UHFSDR
Date: 2012-02-18 21:19:03 UTC
From: The Silver Fox
Topic: 684 Message: 685

I spend a lot of my time packaging and labeling parts for the full kit. It is nice to see that the effort is appreciated by the builders.

73's

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of MIKE DURKIN
Sent: Saturday, February 18, 2012 12:26 PM
To: uhfsdr@yahoogroups.com
Subject: [UHFSDR] full vs mini kit

Im liking the full kit layout compared to partial an rest from where ever

..

Finding parts in the full kit seems much faster than the pile of stuff (most of which is from digikey).....

Just a whine from me,.....

Mike KC7NOA

686. RE: [UHFSDR] full vs mini kit

Yahoo group: UHFSDR
Date: 2012-02-19 07:13:19 UTC
From: MIKE DURKIN
Topic: 684 Message: 686

I just set 30 parts in 38 minutes .... then flowed in the toaster oven. I would have have done more but its late and here and im tired...

Looks darn nice that way .....

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: alan.r.hill@...
Date: Sat, 18 Feb 2012 13:19:03 -0800
Subject: RE: [UHFSDR] full vs mini kit

I spend a lot of my time packaging and labeling parts for the full kit. It is nice to see that the effort is appreciated by the builders.
73'sAlan – W6ARH From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of MIKE DURKIN
Sent: Saturday, February 18, 2012 12:26 PM
To: uhfsdr@yahoogroups.com
Subject: [UHFSDR] full vs mini kit Im liking the full kit layout compared to partial an rest from where ever

..

Finding parts in the full kit seems much faster than the pile of stuff (most of which is from digikey).....

Just a whine from me,.....

Mike KC7NOA

687. RE: [UHFSDR] full vs mini kit

Yahoo group: UHFSDR
Date: 2012-02-19 07:52:34 UTC
From: Stephen Farthing
Topic: 684 Message: 687

I wish I had bought the full kit. I bought the partial one and the rest of the parts from Farnell in the UK. They were out of stock of some items and it took a month or so for me to get them all...

I am looking forward to building it and integrating it with an SDR2GO kit...may be I should order another kit for use with the PC....Hmmm

Thanks for all the hard work you guys put into all this....

72s from a cold but sunny England...

Steve G0XAR

--
Wisdom demands a new orientation of science and technology towards the organic, the gentle, the non-violent, the elegant and beautiful. E. F. Schumacher

688. Building UHFSDR - ADUM1251 issue

Yahoo group: UHFSDR
Date: 2012-02-19 13:48:02 UTC
From: philseaford
Topic: 688 Message: 688

Currently building up the UHFSDR kit and currently stumped at step 45 in the build sequence (Verify H1-3) where we check the ADUM device can pull down the data line when TP2 (SDA) is grounded.
Measured pulldown is 0.843 volts and the build procedure requires < 0.5 volts.
Have reflowed the ADUM connections and verified the the 4 1k pullups around the device are badged 1001 ie 1K
Any suggestions would be very welcome.
Thanks

689. Re: [UHFSDR] Building UHFSDR - ADUM1251 issue

Yahoo group: UHFSDR
Date: 2012-02-19 17:08:13 UTC
From: Dave
Topic: 688 Message: 689

0.84 should be OK.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/19/2012 5:48 AM, philseaford wrote:
>
> Currently building up the UHFSDR kit and currently stumped at step 45
> in the build sequence (Verify H1-3) where we check the ADUM device can
> pull down the data line when TP2 (SDA) is grounded.
> Measured pulldown is 0.843 volts and the build procedure requires <
> 0.5 volts.
> Have reflowed the ADUM connections and verified the the 4 1k pullups
> around the device are badged 1001 ie 1K
> Any suggestions would be very welcome.
> Thanks
>
>

690. reflow stuff

Yahoo group: UHFSDR
Date: 2012-02-20 02:33:13 UTC
From: Michael
Topic: 690 Message: 690

How many times can you flow/reflow in a hot oven the UHFSDR?

I only place about 35 parts before setting them on in the oven ... just wondering

Mike KC7NOA

691. Re: [UHFSDR] Sound cards and PowerSDR-IQ

Yahoo group: UHFSDR
Date: 2012-02-20 05:03:11 UTC
From: w9amr@aol.com
Topic: 681 Message: 691

Hi Tony

I am a little confused as to why you are switching cables to TX?

Using the on board soundcard for Mic and speaker is what I do as well. The external sound device (in my case a SDR widget) is used for I/Q. This is better for the reasons you describe. You use the VAC function in PSDR to handle the audio switching between the cards.

If you leave the USB soundcard plugged in windows like to select it as the default sound card when you reboot. Then it will repeat the mic audio out to the speaker when you use the internal card for mic and speaker. I unplug the external sound while (re)booting or go in to the sound device settings and change it back.

I have used 2 separate soundcards for 95% of my SDR for the nearly 4 years that I have been playing with SDR. I will agree a supported sound card works better, ie more features but 2 soundcards are totally doable and work very well. I can take screen captures of my settings if it will help you or anyone else. More then glad to help. Especially if it saves $$ that can be better spent elsewhere. A high dollar card is not a total necessity but great if you can afford it.

Larry W9AMR

In a message dated 2/18/2012 9:40:09 A.M. Eastern Standard Time, tony@tabbey.com writes:

I am struggling presently to understand how the line in/line out/ microphone etc all relate. I have a PC with internal sound card and an external Creative SoundBlaster USB unit. I am using the SoundBlaster for IQ input because it is much quieter than the internal card, and I am using the internal sound card for speaker or phones o/p. So far so good. But when I want to transmit, if I plug the UHFSDR line in to the line out of the PC, it mutes the speaker o/p. Various combinations of microphone i/p will appear in the received audio. I cannot get PowerSDR-IQ to manage the interfaces when switching from RX to TX independently of settings on the AC47 mixer or the SoundBlaster mixer. I have so far not been able to find a setup guide.
I can see why people are using dedicated USB2SDR cards etc. Help gratefully received.

Tony

692. RE: [UHFSDR] reflow stuff

Yahoo group: UHFSDR
Date: 2012-02-20 08:12:49 UTC
From: marc olanié
Topic: 690 Message: 692

By experience, 4 times is a maximum (most of the time, one reflow per side is a good and logical rule of thumb). After 5 reflows, your solder is badly stained, contacts can be affected. EXCEPTED if you can "spray" some flux on your board to keep your former solder points shiny and with good surface tensions during the next reflow process

73'
Marc f6itu

-----Message d'origine-----
De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] De la part de Michael
Envoyé : lundi 20 février 2012 03:33
À : UHFSDR@yahoogroups.com
Objet : [UHFSDR] reflow stuff

How many times can you flow/reflow in a hot oven the UHFSDR?

I only place about 35 parts before setting them on in the oven ... just wondering

Mike KC7NOA

Yahoo! Groups Links

693. Si570 CML via Xformers

Yahoo group: UHFSDR
Date: 2012-02-20 10:35:34 UTC
From: davidhooau
Topic: 693 Message: 693

Hi All,

I'd like to drive the UHFSDR from an external QRP2000 hosting a CML Si570 (DBA version). My best guess is to use the LVDS resistor and capacitor values on the UHFSDR IQGEN page, and then use the 1:1:1 transformer on the QRP2000 (with no ground jumpers).

Has anyone used this configuration? It looks to me that I get a 1:2 mismatch with T2 (on the CLK page).

Thanks,

davidh

694. Re: [UHFSDR] Si570 CML via Xformers

Yahoo group: UHFSDR
Date: 2012-02-20 21:40:16 UTC
From: Dave
Topic: 693 Message: 694

Using the LVDS components should match the CML(it needs 100 ohm differential load and a series cap to isolte from the different DC offset of the LVPECL dividors. You don't need to install T2. Go directly from the Si570 outputs to TP6 and TP7. T2 is used for a single ended external oscillator.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/20/2012 2:35 AM, davidhooau wrote:
>
> Hi All,
>
> I'd like to drive the UHFSDR from an external QRP2000 hosting a CML
> Si570 (DBA version). My best guess is to use the LVDS resistor and
> capacitor values on the UHFSDR IQGEN page, and then use the 1:1:1
> transformer on the QRP2000 (with no ground jumpers).
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> Has anyone used this configuration? It looks to me that I get a 1:2
> mismatch with T2 (on the CLK page).
>
> Thanks,
>
> davidh
>
>
>

695. RE: [UHFSDR] Si570 CML via Xformers

Yahoo group: UHFSDR
Date: 2012-02-20 23:48:33 UTC
From: MIKE DURKIN
Topic: 693 Message: 695

Would it be advantageous to put the Si570 on the UHFSDR?

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Mon, 20 Feb 2012 13:40:16 -0800
Subject: Re: [UHFSDR] Si570 CML via Xformers

Using the LVDS components should match the CML(it needs 100 ohm
differential load and a series cap to isolte from the different DC
offset of the LVPECL dividors. You don't need to install T2. Go
directly from the Si570 outputs to TP6 and TP7. T2 is used for a
single ended external oscillator.

Dave - WB6DHW

<http://wb6dhw.com>

On 2/20/2012 2:35 AM, davidhooau wrote:

Hi All,

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hosting a CML Si570 (DBA version). My best guess is to use
the LVDS resistor and capacitor values on the UHFSDR IQGEN
page, and then use the 1:1:1 transformer on the QRP2000
(with no ground jumpers).

Has anyone used this configuration? It looks to me that I
get a 1:2 mismatch with T2 (on the CLK page).

Thanks,

davidh

696. Re: [UHFSDR] Si570 CML via Xformers

Yahoo group: UHFSDR
Date: 2012-02-21 00:10:48 UTC
From: Dave
Topic: 693 Message: 696

Mike:
Possibly. If it is on the QRP2000, you could use twisted pair for
internconnect.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/20/2012 3:48 PM, MIKE DURKIN wrote:
>
> Would it be advantageous to put the Si570 on the UHFSDR?
>
> ----------
> To: UHFSDR@yahoogroups.com
> From: dave@...
> Date: Mon, 20 Feb 2012 13:40:16 -0800
> Subject: Re: [UHFSDR] Si570 CML via Xformers
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> 1:2 mismatch with T2 (on the CLK page).
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> Thanks,
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> davidh
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>
>
>

>
>

697. Re: Sound cards and PowerSDR-IQ

Yahoo group: UHFSDR
Date: 2012-02-21 01:11:08 UTC
From: tony_g3ovh
Topic: 681 Message: 697

Hi Larry

I think I would be grateful if you can post screen captures of your settings. I have been looking at the powersdr-iq Yahoo group, and I am seeing the same questions coming up. My problem seems to be that when the linein is plugged in to the soundblaster card, it mutes the microphone even on transmit, so I cant feed audio from the speaker o/p on the SB to the UHFSDR. I can get VAC to route soundblaster output to the internal card output, so I can have the option of listening on the headphones plugged into the UHFSDR, or on my PC speakers. In order to transmit I have to unplug the linein from the SB. I can also plug the mic into the PC sound card and the lineout to the uhfsdr but the audio gets muted on transmit and no modulation takes place. This may sound all garbled and probably is - there are so many options and no simple explanation of how it is supposed to work. I keep coming back to it and playing for a while but have not yet cracked it.
Any help gratefully received,
Tony

--- In UHFSDR@yahoogroups.com, w9amr@... wrote:
>
> Hi Tony
>
> I am a little confused as to why you are switching cables to TX?
>
> Using the on board soundcard for Mic and speaker is what I do as well. The
> external sound device (in my case a SDR widget) is used for I/Q. This is
> better for the reasons you describe. You use the VAC function in PSDR to
> handle the audio switching between the cards.
>
> If you leave the USB soundcard plugged in windows like to select it as the
> default sound card when you reboot. Then it will repeat the mic audio out
> to the speaker when you use the internal card for mic and speaker. I
> unplug the external sound while (re)booting or go in to the sound device
> settings and change it back.
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> I have used 2 separate soundcards for 95% of my SDR for the nearly 4 years
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> anyone else. More then glad to help. Especially if it saves $$ that can be
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> great if you can afford it.
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> In a message dated 2/18/2012 9:40:09 A.M. Eastern Standard Time,
> tony@... writes:
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> I can see why people are using dedicated USB2SDR cards etc. Help
> gratefully received.
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> Tony
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698. Re: [UHFSDR] Re: Sound cards and PowerSDR-IQ

Yahoo group: UHFSDR
Date: 2012-02-21 01:31:18 UTC
From: w9amr@aol.com
Topic: 681 Message: 698

Hi Tony

I will make the captures and write something up that you can hopefully follow. I am not much of a writer lol. I am sure we can get you going without to much trouble. If your in the USA I am more then glad to call you and talk you threw it or even use Skype. I will send you the info off list and if you think it is easy to understand I can post it somewhere that it can be useful.

Larry

In a message dated 2/20/2012 8:11:16 P.M. Eastern Standard Time, tony@... writes:

Hi Larry

I think I would be grateful if you can post screen captures of your settings. I have been looking at the powersdr-iq Yahoo group, and I am seeing the same questions coming up. My problem seems to be that when the linein is plugged in to the soundblaster card, it mutes the microphone even on transmit, so I cant feed audio from the speaker o/p on the SB to the UHFSDR. I can get VAC to route soundblaster output to the internal card output, so I can have the option of listening on the headphones plugged into the UHFSDR, or on my PC speakers. In order to transmit I have to unplug the linein from the SB. I can also plug the mic into the PC sound card and the lineout to the uhfsdr but the audio gets muted on transmit and no modulation takes place. This may sound all garbled and probably is - there are so many options and no simple explanation of how it is supposed to work. I keep coming back to it and playing for a while but have not yet cracked it.
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Tony

--- In _UHFSDR@yahoogroups.com_ (mailto:UHFSDR@yahoogroups.com) , w9amr@... wrote:
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> Hi Tony
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> I am a little confused as to why you are switching cables to TX?
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> unplug the external sound while (re)booting or go in to the sound device
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> works better, ie more features but 2 soundcards are totally doable and
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or
> anyone else. More then glad to help. Especially if it saves $$ that can
be
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> Larry W9AMR
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> tony@... writes:
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> because it is much quieter than the internal card, and I am using the
internal
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> transmit, if I plug the UHFSDR line in to the line out of the PC, it
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> received audio. I cannot get PowerSDR-IQ to manage the interfaces when
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the
> SoundBlaster mixer. I have so far not been able to find a setup guide.
> I can see why people are using dedicated USB2SDR cards etc. Help
> gratefully received.
>
> Tony
>

699. UHFSDR in Eddystone Die Cast Box

Yahoo group: UHFSDR
Date: 2012-02-21 14:18:46 UTC
From: Ed
Topic: 699 Message: 699

Hi All,
Thought you might like to see my UHFSDR now in its box. I managed to find an Eddystone Die Cast Box which is absolutely perfect in size. The external dimensions of the box measure 120 X 95 X 34 mm. The PCB fits nicely on the lid which in the photos is the Base of the box. I have included an USB interface which is made on a small PCB mounted above the main board. First of all I removed the Regulator IC and fitted it on the Base underneath the main PCB and added 0.1 caps between the In/Out pins and the centre earth pin. The large power resistor R1 was also removed from the main PCB and fitted on the interface board. The interface circuit is based on the Softrock, utilising the Tiny chip with firmware V15.12 and the opto IC to provide isolation for the PTT function. The output of this IC drives a PNP transistor whose emitter is connected to the +5 VF supply. The collector drives the TX LED and the Main board T/R PTT. I also included a diode connected in series with R1 to protect against the +12 Volt being connected in reverse. There are three additional connectors, The USB, PADDLES and the POWER, all fitted on the small PCB. The PADDLES connector has an insolated case which is long enough to protrude out through the back of the box such that the when the plug is fitted its metal work (earth) does not short circuit to the box. (This connector is within the isolated circuit section a should not be able to connect to the Main PCB earth.)
Dave, it would be just GREAT if you could manage to move the PSU components down the main PCB to make room for all three connectors. The POWER connector used by the Softrock kits is ideal for the job. The PADDLES connector was the type distributed by Alan, BTW the other three stereo connectors were the type you specified in the Farnell BOM. The Eddystone Box was obtained from MAPLINs, THEIR Part Number is: N90BQ See GM3SBC File Section photos . 73s Ed GM3SBC

700. Re: [UHFSDR] UHFSDR in Eddystone Die Cast Box

Yahoo group: UHFSDR
Date: 2012-02-21 16:10:21 UTC
From: Sid Boyce
Topic: 699 Message: 700

On 21/02/12 14:18, Ed wrote:
>
> Hi All,
> Thought you might like to see my UHFSDR now in its box. I managed to
> find an Eddystone Die Cast Box which is absolutely perfect in size.
> The external dimensions of the box measure 120 X 95 X 34 mm. The PCB
> fits nicely on the lid which in the photos is the Base of the box. I
> have included an USB interface which is made on a small PCB mounted
> above the main board. First of all I removed the Regulator IC and
> fitted it on the Base underneath the main PCB and added 0.1 caps
> between the In/Out pins and the centre earth pin. The large power
> resistor R1 was also removed from the main PCB and fitted on the
> interface board. The interface circuit is based on the Softrock,
> utilising the Tiny chip with firmware V15.12 and the opto IC to
> provide isolation for the PTT function. The output of this IC drives a
> PNP transistor whose emitter is connected to the +5 VF supply. The
> collector drives the TX LED and the Main board T/R PTT. I also
> included a diode connected in series with R1 to protect against the
> +12 Volt being connected in reverse. There are three additional
> connectors, The USB, PADDLES and the POWER, all fitted on the small
> PCB. The PADDLES connector has an insolated case which is long enough
> to protrude out through the back of the box such that the when the
> plug is fitted its metal work (earth) does not short circuit to the
> box. (This connector is within the isolated circuit section a should
> not be able to connect to the Main PCB earth.)
> Dave, it would be just GREAT if you could manage to move the PSU
> components down the main PCB to make room for all three connectors.
> The POWER connector used by the Softrock kits is ideal for the job.
> The PADDLES connector was the type distributed by Alan, BTW the other
> three stereo connectors were the type you specified in the Farnell
> BOM. The Eddystone Box was obtained from MAPLINs, THEIR Part Number
> is: N90BQ See GM3SBC File Section photos . 73s Ed GM3SBC
>
Looks great Ed,
I used a Maplin AB15 aluminium box with the UHFSDR and SDR-Widget
mounted on the base with headroom for a QRP PA and BPF filters for both
RX and TX to be mounted on the top cover.
The box is painted with grey Hammerite paint.

The other Widget bits, LCD, rotary encoder, Power LED and switches on
the front.

On the backpanel Power input, fuse, antenna socket and holes for entry
of the audio cables and USB connector.

I also removed the 7805 and use outboard, a LM338 5A regulator on a 90mm x 90mm x 20mm heatsink with a small PC fan mounted in a Maplin plastic box with top removed.
The 13.8V to the UHFSDR is fed to the board via a 1N5822 diode. I removed R1 as the voltage drop with the 1N5822 in series with it was excessive.

Must take some pictures later.
73 ... Sid.

>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

701. Re: [UHFSDR] UHFSDR in Eddystone Die Cast Box

Yahoo group: UHFSDR
Date: 2012-02-21 18:51:37 UTC
From: Chris
Topic: 699 Message: 701

hi ED I cant find your pic
----- Original Message -----
From: Ed
To: UHFSDR@yahoogroups.com
Sent: Tuesday, February 21, 2012 2:18 PM
Subject: [UHFSDR] UHFSDR in Eddystone Die Cast Box

Hi All,
Thought you might like to see my UHFSDR now in its box. I managed to find an Eddystone Die Cast Box which is absolutely perfect in size. The external dimensions of the box measure 120 X 95 X 34 mm. The PCB fits nicely on the lid which in the photos is the Base of the box. I have included an USB interface which is made on a small PCB mounted above the main board. First of all I removed the Regulator IC and fitted it on the Base underneath the main PCB and added 0.1 caps between the In/Out pins and the centre earth pin. The large power resistor R1 was also removed from the main PCB and fitted on the interface board. The interface circuit is based on the Softrock, utilising the Tiny chip with firmware V15.12 and the opto IC to provide isolation for the PTT function. The output of this IC drives a PNP transistor whose emitter is connected to the +5 VF supply. The collector drives the TX LED and the Main board T/R PTT. I also included a diode connected in series with R1 to protect against the +12 Volt being connected in reverse. There are three additional connectors, The USB, PADDLES and the POWER, all fitted on the small PCB. The PADDLES connector has an insolated case which is long enough to protrude out through the back of the box such that the when the plug is fitted its metal work (earth) does not short circuit to the box. (This connector is within the isolated circuit section a should not be able to connect to the Main PCB earth.)
Dave, it would be just GREAT if you could manage to move the PSU components down the main PCB to make room for all three connectors. The POWER connector used by the Softrock kits is ideal for the job. The PADDLES connector was the type distributed by Alan, BTW the other three stereo connectors were the type you specified in the Farnell BOM. The Eddystone Box was obtained from MAPLINs, THEIR Part Number is: N90BQ See GM3SBC File Section photos . 73s Ed GM3SBC

No virus found in this message.
Checked by AVG - www.avg.com
Version: 2012.0.1913 / Virus Database: 2113/4823 - Release Date: 02/21/12

702. headphones

Yahoo group: UHFSDR
Date: 2012-02-22 00:31:02 UTC
From: MIKE DURKIN
Topic: 702 Message: 702

I think the answers is only 1 side ...

The question was, when using headphones can you hear audio on both sides ....

Mike KC7NOA

703. Re: headphones

Yahoo group: UHFSDR
Date: 2012-02-22 01:49:26 UTC
From: Michael
Topic: 702 Message: 703

Ill clarify just a bit ...

When plugging in a standard headphones into the "To LIn " jack, do you only hear audio in one speaker or both? I think I might have a jack problem...

Mike KC7NOA

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
> I think the answers is only 1 side ...
>
> The question was, when using headphones can you hear audio on both sides ....
>
> Mike KC7NOA
>

704. RE: [UHFSDR] Re: headphones

Yahoo group: UHFSDR
Date: 2012-02-22 05:36:42 UTC
From: MIKE DURKIN
Topic: 702 Message: 704

Gosh, never mind ... I had 2 bad audio cables .... one new ... taken it back tomarrow ....Give me a break !!!!!
To: UHFSDR@yahoogroups.com
From: Patriot121@...
Date: Wed, 22 Feb 2012 01:49:26 +0000
Subject: [UHFSDR] Re: headphones

Ill clarify just a bit ...

When plugging in a standard headphones into the "To LIn " jack, do you only hear audio in one speaker or both? I think I might have a jack problem...

Mike KC7NOA

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:

>

> I think the answers is only 1 side ...

>

> The question was, when using headphones can you hear audio on both sides ....

>

> Mike KC7NOA

>

705. Re: headphones

Yahoo group: UHFSDR
Date: 2012-02-22 07:59:13 UTC
From: Stephen Farthing
Topic: 702 Message: 705

Hi Guys,

This reminds me of a story about my sister's husbands father. He was a very clever engineer but in his 80s. He bought a new stereo, but found there was nothing coming out of the left hand speaker so he took it back to the shop. They tested it and found it to be OK. He took it home and found the same fault. Thinking he had been ripped off and there was nothing he could do he want to another shop, bought another stereo and had the same problem. This time he took the stereo apart....no fault found.....so he went to another shop, bought a third stereo and had exactly the same problem....thinking he was loosing his sanity he went to see his doctor. The doc did some tests and told him he was not mad....just deaf in his left ear.

73s Steve G0XAR

--
Wisdom demands a new orientation of science and technology towards the organic, the gentle, the non-violent, the elegant and beautiful. E. F. Schumacher

706. L1 choke values

Yahoo group: UHFSDR
Date: 2012-02-22 16:41:34 UTC
From: MIKE DURKIN
Topic: 706 Message: 706

Has anyone tried more than 2 values of L1(3.3uH & 560nH) in series?

Does it matter which one is tied to the output of U5?

Id like operation to 700mhz but 480mhz will do....

Would the 560nH suffice up to 700mhz or?

Also has any one measured the loss of T1? Is it actually 5db at 500mhz(gleaned from datasheet) or less ....

710. RE: [UHFSDR] kindly help in making a simple sdr receiver for uhf 462.5-462.7mhz...

Yahoo group: UHFSDR
Date: 2012-02-22 19:56:44 UTC
From: marc olanié
Topic: 707 Message: 710

Dr OM

Please, avoid « crossposting » for any demand like this If only 3 people on each forum send you a « reply to all » answer, it will generate 867 messages across all these 17 places.

ham4sale@yahoogroups.com; HamBrewers@yahoogroups.com; hamradiohomebrew@yahoogroups.com; hfpack@yahoogroups.com; hamradionews@yahoogroups.com; HamRadioHelpGroup@yahoogroups.com; homebrew-radios@yahoogroups.com; homebrewtransistorradios@yahoogroups.com; MM-HAMSOFT@yahoogroups.com; qrp-fr@...; QRP_Radio@yahoogroups.co.uk; QRPp-I@yahoogroups.com; RadioModifications@yahoogroups.com; UHFSDR@yahoogroups.com; softrock40@yahoogroups.com; Shortwave-SWL-Antenna@yahoogroups.com; Rock-Mite_Group@yahoogroups.com

That was a lot of yahoo groups !

Concerning your question, you just have to read the very first document describing the ☐AR☐ family

http://yu1lm.qrpradio.com/HF-VHF%20SDR%20receiver-part1-YU1LM.pdf

page 7 :

AR1 is the simplest,

AR1B is the best performer, with low noise op amps

AR1C is the same as AR1B, but with a stronger noise factor

All of them are running perfectly well, particularly if you use ☐high level☐ mixer like the SRA1H

These receivers must be followed by a rather ☐strong☐ (13 to 20 dBm) local oscillator on port 8 of the mixer.

The bandpass filter will be a trivial question once you have build your receiver AND your local oscillator. This kind of filter could be made with some length of hand formable coax cable, printed stiplines on a pcb, or more classical ☐hairpin☐ LC circuits

73☐

Marc f6itu

712. Re: [UHFSDR] L1 choke values

Yahoo group: UHFSDR
Date: 2012-02-22 20:42:27 UTC
From: Dave
Topic: 706 Message: 712

Mike:
Using 2 chokes in series, doesn't matter which comes first. The
560nH value is right from the mmic data sheet, so should go much higher
in frequency depending on the SRF of the coil.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/22/2012 8:41 AM, MIKE DURKIN wrote:
>
> Has anyone tried more than 2 values of L1(3.3uH & 560nH) in series?
>
> Does it matter which one is tied to the output of U5?
>
> Id like operation to 700mhz but 480mhz will do....
>
> Would the 560nH suffice up to 700mhz or?
>
> Also has any one measured the loss of T1? Is it actually 5db at
> 500mhz(gleaned from datasheet) or less ....
>
>

713. RE: [UHFSDR] L1 choke values

Yahoo group: UHFSDR
Date: 2012-02-22 21:03:50 UTC
From: MIKE DURKIN
Topic: 706 Message: 713

Could I buy a couple off of you?

Pair of 3.3uf and a pair of 560nH?

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Wed, 22 Feb 2012 12:42:27 -0800
Subject: Re: [UHFSDR] L1 choke values

Mike:

Using 2 chokes in series, doesn't matter which comes first. The
560nH value is right from the mmic data sheet, so should go much
higher in frequency depending on the SRF of the coil.

Dave - WB6DHW

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On 2/22/2012 8:41 AM, MIKE DURKIN wrote:

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Also has any one measured the loss of T1? Is it actually
5db at 500mhz(gleaned from datasheet) or less ....

714. UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-02-22 21:15:18 UTC
From: Ed
Topic: 714 Message: 714

Hello All you UHFSDR lovers,

I decided to do some further measurements of the MDS on my UHFSDR.

I started by measuring the UHFSDR unmodified in the following set up conditions:

Software: WRplus
PC: ASPIRE One Net book
Signal Generator: HP with additional Microwave attenuators.
Mode : CW
Frequency: 144.300 Mhz
Bandwidth: 500Hz
AGC:Off

The result for 1 dB signal above noise power : -133dBm.

I then decided to change U4 (BGA612) to a different type of MMIC, the SPF5043Z. This is a 50 Mhz to 4 Ghz part with high dynamic range. It has a lower noise figure and higher gain than the BGA612.
The mod was simple, remove the BGA612, install the SPF5043Z taking care to check the different orientation and replace R3 (120 ohm)with a 100nH Inductor.

The result for 1 dB signal above noise power : -145dBm

So if you want a super sensitive VHF/UHF front end, you got it !

Only possible down side is that the IC starts to degrade below 50 Mhz. It could still be adequate for the DC bands if you really must use the UHFSDR for that purpose.

What a remarkable little radio this is.

Regards

Ed GM3SBC

715. RE: [UHFSDR] UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-02-22 21:32:14 UTC
From: The Silver Fox
Topic: 714 Message: 715

Good news. Perhaps we should mod the kits? Chime in Dave if this is recommended.

73's

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Ed
Sent: Wednesday, February 22, 2012 1:15 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] UHFSDR Sensitivity Improvement

Hello All you UHFSDR lovers,

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Regards

Ed GM3SBC

716. RE: [UHFSDR] UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-02-22 21:39:15 UTC
From: MIKE DURKIN
Topic: 714 Message: 716

Check the degradation on 160m .... might be a wash in gain/loss ... - which would mean I would make the change ....

I want 1.8Mhz to light operation! !!

Hi hi!!!

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: alan.r.hill@gmail.com
Date: Wed, 22 Feb 2012 13:32:14 -0800
Subject: RE: [UHFSDR] UHFSDR Sensitivity Improvement

Good news. Perhaps we should mod the kits? Chime in Dave if this is recommended.
73’sAlan – W6ARH From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Ed
Sent: Wednesday, February 22, 2012 1:15 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] UHFSDR Sensitivity Improvement Hello All you UHFSDR lovers,

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Bandwidth: 500Hz
AGC:Off

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So if you want a super sensitive VHF/UHF front end, you got it !

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What a remarkable little radio this is.

Regards

Ed GM3SBC

717. Re: [UHFSDR] UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-02-22 21:39:45 UTC
From: Rob Frohne
Topic: 714 Message: 717
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Ed,

Could you measure the sensitivity on the "DC" bands too and report that?

Tnx & 73,

Rob
KL7NA

On 02/22/2012 01:15 PM, Ed wrote:
>
> Hello All you UHFSDR lovers,
>
> I decided to do some further measurements of the MDS on my UHFSDR.
>
> I started by measuring the UHFSDR unmodified in the following set up
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>

> Regards
>
> Ed GM3SBC
>
>

--
Rob Frohne, Ph.D., P.E.
E.F. Cross School of Engineering
Walla Walla University
100 SW 4th Street
College Place, WA 99324
(509) 527-2075 http://people.wallawalla.edu/~rob.frohne

718. Re: [UHFSDR] UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-02-22 23:16:33 UTC
From: Dave
Topic: 714 Message: 718

I see Digikey has them in qty 1 for $3.22. What is their performance at HF?

Dave - WB6DHW
<http://wb6dhw.com>

On 2/22/2012 1:32 PM, The Silver Fox wrote:
>
> Good news. Perhaps we should mod the kits? Chime in Dave if this is
> recommended.
>
> 73's
>
> Alan -- W6ARH
>
> *From:*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] *On
> Behalf Of *Ed
> *Sent:* Wednesday, February 22, 2012 1:15 PM
> *To:* UHFSDR@yahoogroups.com
> *Subject:* [UHFSDR] UHFSDR Sensitivity Improvement
>
> Hello All you UHFSDR lovers,
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>
> Regards
>
> Ed GM3SBC
>
>
>

719. Re: UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-02-23 00:03:45 UTC
From: Ed
Topic: 714 Message: 719

Hi Dave,

The Return Loss and Gain starts to degrade below 50 Mhz and the specification does not detail any lower frequency performance. However they could well be adequate for the lower frequency requirements.
I can do tests down to 10 Mhz on this sample of one as an indicator and report back.
Spec sheet :-
http://www.rfmd.com/CS/Documents/SPF-5043ZDS.pdf

73s Ed GM3SBC

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> I see Digikey has them in qty 1 for $3.22. What is their performance
> at HF?
>
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> <http://wb6dhw.com>
>
> On 2/22/2012 1:32 PM, The Silver Fox wrote:
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> >
> > Alan -- W6ARH
> >
> > *From:*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] *On
> > Behalf Of *Ed
> > *Sent:* Wednesday, February 22, 2012 1:15 PM
> > *To:* UHFSDR@yahoogroups.com
> > *Subject:* [UHFSDR] UHFSDR Sensitivity Improvement
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> > Hello All you UHFSDR lovers,
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> >
> > What a remarkable little radio this is.
> >
> > Regards
> >
> > Ed GM3SBC
> >
> >
> >
>

721. Re: [UHFSDR] UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-02-23 01:57:39 UTC
From: Dave
Topic: 714 Message: 721

Ed:
If you test the mmic at HF, you will need to increase the value of
the choke. 1uH will probably be OK to 10 MHz, 3.3 uH for lower.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/22/2012 1:15 PM, Ed wrote:
>
> Hello All you UHFSDR lovers,
>
> I decided to do some further measurements of the MDS on my UHFSDR.
>
> I started by measuring the UHFSDR unmodified in the following set up
> conditions:
>
> Software: WRplus
> PC: ASPIRE One Net book
> Signal Generator: HP with additional Microwave attenuators.
> Mode : CW
> Frequency: 144.300 Mhz
> Bandwidth: 500Hz
> AGC:Off
>
> The result for 1 dB signal above noise power : -133dBm.
>
> I then decided to change U4 (BGA612) to a different type of MMIC, the
> SPF5043Z. This is a 50 Mhz to 4 Ghz part with high dynamic range. It
> has a lower noise figure and higher gain than the BGA612.
> The mod was simple, remove the BGA612, install the SPF5043Z taking
> care to check the different orientation and replace R3 (120 ohm)with
> a 100nH Inductor.
>
> The result for 1 dB signal above noise power : -145dBm
>
> So if you want a super sensitive VHF/UHF front end, you got it !
>
> Only possible down side is that the IC starts to degrade below 50 Mhz.
> It could still be adequate for the DC bands if you really must use the
> UHFSDR for that purpose.
>
> What a remarkable little radio this is.
>
> Regards
>

> Ed GM3SBC
>
>
>

722. RE: [UHFSDR] UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-02-23 02:38:03 UTC
From: MIKE DURKIN
Topic: 714 Message: 722

Sounds like another instance of series set chokes, 100nH & 560nH and a 3.3uH ....

Probably will look odd .....

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Wed, 22 Feb 2012 17:57:39 -0800
Subject: Re: [UHFSDR] UHFSDR Sensitivity Improvement

Ed:

If you test the mmic at HF, you will need to increase the value of
the choke. 1uH will probably be OK to 10 MHz, 3.3 uH for lower.

Dave - WB6DHW

<http://wb6dhw.com>

On 2/22/2012 1:15 PM, Ed wrote:

Hello All you UHFSDR lovers,

I decided to do some further measurements of the MDS on my
UHFSDR.

I started by measuring the UHFSDR unmodified in the
following set up conditions:

Software: WRplus

PC: ASPIRE One Net book

Signal Generator: HP with additional Microwave
attenuators.

Mode : CW

Frequency: 144.300 Mhz

Bandwidth: 500Hz

AGC:Off

The result for 1 dB signal above noise power : -133dBm.

I then decided to change U4 (BGA612) to a different type
of MMIC, the SPF5043Z. This is a 50 Mhz to 4 Ghz part with
high dynamic range. It has a lower noise figure and higher

gain than the BGA612.

The mod was simple, remove the BGA612, install the SPF5043Z taking care to check the different orientation and replace R3 (120 ohm)with a 100nH Inductor.

The result for 1 dB signal above noise power : -145dBm

So if you want a super sensitive VHF/UHF front end, you got it !

Only possible down side is that the IC starts to degrade below 50 Mhz. It could still be adequate for the DC bands if you really must use the UHFSDR for that purpose.

What a remarkable little radio this is.

Regards

Ed GM3SBC

723. sdr software

Yahoo group: UHFSDR
Date: 2012-02-23 03:55:50 UTC
From: MIKE DURKIN
Topic: 723 Message: 723

So was there a comprehensive list of SDR software composed or not?

Its sad to say that SDRsharp performs the best for Rx at the moment (that iv used) .... I have the feeling that he is somewhat new to ham radio

Mike KC7NOA

724. Re: sdr software

Yahoo group: UHFSDR
Date: 2012-02-23 07:26:22 UTC
From: sv1eia
Topic: 723 Message: 724

> (that iv used)

Thats the key phrase.
It seems that you have little experience on the subject (yet).

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
> So was there a comprehensive list of SDR software composed or not?
>
> Its sad to say that SDRsharp performs the best for Rx at the moment (that iv used) .... I have the feeling that he is somewhat new to ham radio
>
> Mike KC7NOA
>

725. Re: [UHFSDR] L1 choke values

Yahoo group: UHFSDR
Date: 2012-02-23 07:43:48 UTC
From: Dave
Topic: 706 Message: 725

Mike:
I have 3.3uf but not 560nH. The 3.3uf data sheet shows a SRF of 260 MHz so would be good at least through 220 MHz. Probably good at 420 MHz, although above the SRF.
Mouser lists the 3.3 uf at $0.47. Could ship for a first class stamp in a regular envelope or $1.64 in a padded envelope.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/22/2012 1:03 PM, MIKE DURKIN wrote:
>
> Could I buy a couple off of you?
>
> Pair of 3.3uf and a pair of 560nH?
>
> Mike KC7NOA
>
> ---
> To: UHFSDR@yahoogroups.com
> From: dave@...
> Date: Wed, 22 Feb 2012 12:42:27 -0800
> Subject: Re: [UHFSDR] L1 choke values
>
> Mike:
> Using 2 chokes in series, doesn't matter which comes first. The
> 560nH value is right from the mmic data sheet, so should go much
> higher in frequency depending on the SRF of the coil.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 2/22/2012 8:41 AM, MIKE DURKIN wrote:
>
>
> Has anyone tried more than 2 values of L1(3.3uH & 560nH) in series?
>
> Does it matter which one is tied to the output of U5?
>
> Id like operation to 700mhz but 480mhz will do....
>
> Would the 560nH suffice up to 700mhz or?
>
> Also has any one measured the loss of T1? Is it actually 5db at
> 500mhz(gleaned from datasheet) or less ....

>
>
>

726. RE: [UHFSDR] Re: sdr software

Yahoo group: UHFSDR
Date: 2012-02-23 08:45:48 UTC
From: MIKE DURKIN
Topic: 723 Message: 726

Felt the slap, still looking for the helping hand.

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: sv1eia@...
Date: Thu, 23 Feb 2012 07:26:22 +0000
Subject: [UHFSDR] Re: sdr software

> (that iv used)

Thats the key phrase.

It seems that you have little experience on the subject (yet).

--- In UHFSDR@...m, MIKE DURKIN <Patriot121@...> wrote:

>

> So was there a comprehensive list of SDR software composed or not?

>

> Its sad to say that SDRsharp performs the best for Rx at the moment (that iv used) .... I have the feeling that he is somewhat new to ham radio

>

> Mike KC7NOA

>

727. RE: [UHFSDR] Re: sdr software

Yahoo group: UHFSDR
Date: 2012-02-23 09:03:45 UTC
From: Stephen Farthing
Topic: 723 Message: 727

Hey guys,

Can we show a bit of understanding here? There are a lot of people on the list who don't have the command of the English language that us native speakers do. So it is pretty easy to misinterpret their meaning and take offence when none was meant. Even American English is different from English English. Churchill once said that the USA and Britain were 2 great nations divided by a common language.

FWIW the Softrock group has a lot of people on it who are very knowledgable about SDR software. In fact a couple of people in it actually wrote the stuff. So it might be worth subscribing there if you
want to learn about the various packages available and their plus and minus points...

73s from an unusually sunny England,

Steve G0XAR...

--
Wisdom demands a new orientation of science and technology towards the organic, the gentle, the non-violent, the elegant and beautiful. E. F. Schumacher

728. Re: [UHFSDR] Re: sdr software

Yahoo group: UHFSDR
Date: 2012-02-23 10:24:20 UTC
From: w9amr@aol.com
Topic: 723 Message: 728

Hi All

I have used PSRDv1.12 with WinXP. The only real issue I have is I am limited to a highest frequency of 365mhz. The limit would seem to be Widget controller. Other then that I have ran it since it was released and it works great. I have played a bit with Winrad but it is RX only.

I have no Linux experience but hopefully that will change!

Larry W9AMR

In a message dated 2/23/2012 3:45:52 A.M. Eastern Standard Time, Patriot121@... writes:

Felt the slap, still looking for the helping hand.

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: sv1eia@...
Date: Thu, 23 Feb 2012 07:26:22 +0000
Subject: [UHFSDR] Re: sdr software

> (that iv used)

Thats the key phrase.
It seems that you have little experience on the subject (yet).

--- In _UHFSDR@yahoogroups.com_ (mailto:UHFSDR@yahoogroups.com) , MIKE DURKIN <Patriot121@...> wrote:
>
> So was there a comprehensive list of SDR software composed or not?
>
> Its sad to say that SDRsharp performs the best for Rx at the moment (that iv used) .... I have the feeling that he is somewhat new to ham radio
>
> Mike KC7NOA
>

729. Re: sdr software

Yahoo group: UHFSDR
Date: 2012-02-23 10:51:50 UTC
From: sv1eia
Topic: 723 Message: 729

Mike,

:-))

There's no slap whatsoever.

I just tried to tell you that's still a lot to see around. Thought to be able to see things working, you must first Make Them Working ;-)
and it seems that this is the most difficult part based on what I've seen from the SDR homebrew users all these years.
To say that this or that is the best because you could not make the others work at all, it does not reflect the reality.

Now, regarding help, I suggest you take it step by step and not rush into it. If you rush, then you cannot appreciate any given help, and from what I've seen, you do have taken quite help so far in various groups, yet you rush much and you do not absorb it.
I only hope that any help you have taken so far and will take in the future, will come back to the community and you will help others too.

Just my 2c.

73,
Christos SV1EIA

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
> Felt the slap, still looking for the helping hand.
>
> Mike KC7NOA
>
> To: UHFSDR@yahoogroups.com
> From: sv1eia@...
> Date: Thu, 23 Feb 2012 07:26:22 +0000
> Subject: [UHFSDR] Re: sdr software
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> > (that iv used)
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> Thats the key phrase.
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> It seems that you have little experience on the subject (yet).
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> --- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@> wrote:
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> >
>
> > So was there a comprehensive list of SDR software composed or not?
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> > Its sad to say that SDRsharp performs the best for Rx at the moment (that iv used) ....
I have the feeling that he is somewhat new to ham radio
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> >
>
> > Mike KC7NOA
>
> >
>

730. Re: UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-02-23 11:20:48 UTC
From: tony_g3ovh
Topic: 714 Message: 730

Hi Dave

I cant see a price on Digikey - are you sure you got the right part? The Farnell 1 off price in the UK is £22.15 plus tax and p&p with the 100+ price at £16.61 - obviously a premium part but does anyone want to spend that much more?

Tony

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> I see Digikey has them in qty 1 for $3.22. What is their performance
> at HF?
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 2/22/2012 1:32 PM, The Silver Fox wrote:
> >
> > Good news. Perhaps we should mod the kits? Chime in Dave if this is
> > recommended.
> >
> > 73's
> >
> > Alan -- W6ARH
>

731. Re: UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-02-23 11:50:01 UTC
From: tony_g3ovh
Topic: 714 Message: 731

Answering my own post:

The Farnell price is crazy - I see the part is available from RFMD direct from Bejing at $1.32 each in a bag of 25.

Tony

--- In UHFSDR@yahoogroups.com, "tony_g3ovh" <tony@...> wrote:
>
> Hi Dave
>
> I cant see a price on Digikey - are you sure you got the right part? The Farnell 1 off price in the UK is £22.15 plus tax and p&p with the 100+ price at £16.61 - obviously a premium part but does anyone want to spend that much more?
>
> Tony
>
> --- In UHFSDR@yahoogroups.com, Dave <dave@> wrote:
> >
> > I see Digikey has them in qty 1 for $3.22. What is their performance
> > at HF?
> >
> > Dave - WB6DHW
> > <http://wb6dhw.com>
> >
> > On 2/22/2012 1:32 PM, The Silver Fox wrote:
> > >
> > > Good news. Perhaps we should mod the kits? Chime in Dave if this is
> > > recommended.
> > >
> > > 73's
> > >
> > > Alan -- W6ARH
> >
>

732. RE: [UHFSDR] Re: sdr software

Yahoo group: UHFSDR
Date: 2012-02-23 14:31:43 UTC
From: MIKE DURKIN
Topic: 723 Message: 732

Yes, and also AQRP ... for almost a year now I think....

Mike KC7NOA

BTY ... SDR# decoded in all modes .. running Win7,

To: UHFSDR@yahoogroups.com
From: squirrox@...
Date: Thu, 23 Feb 2012 09:03:45 +0000
Subject: RE: [UHFSDR] Re: sdr software

Hey guys,
Can we show a bit of understanding here? There are a lot of people on the list who don't have the command of the English language that us native speakers do. So it is pretty easy to misinterpret their meaning and take offence when none was meant. Even American English is different from English English. Churchill once said that the USA and Britain were 2 great nations divided by a common language.

FWIW the Softrock group has a lot of people on it who are very knowledgable about SDR software. In fact a couple of people in it actually wrote the stuff. So it might be worth subscribing there if you
want to learn about the various packages available and their plus and minus points...
73s from an unusually sunny England,
Steve G0XAR...

--
Wisdom demands a new orientation of science and technology towards the organic, the gentle, the non-violent, the elegant and beautiful. E. F. Schumacher

733. Re: UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-02-23 16:14:23 UTC
From: Ed
Topic: 714 Message: 733

Hi Dave,

(wrote a big reply and lost it so now out of time, short one !)

Re DC Band operation:

Using a VNA I check the gain response using the 100nH Inductor only and below 4 Mhz the gain was several tens of dBs down.

I did not have any other suitable Inductors to hand so decided to insert a 47 ohm resistor in series with the 100nH Inductor.

The SPF5043Z bias is now 3.6 volts from the 4.7 volts with the choke alone.

Measuring from the J4 socket to C8 output.

1.5 Mhz to 150 Mhz Flat with a ripple of 0.43dB
150 Mhz to 432 Mhz rolling smoothly down by 10dB
432 Mhz to 700 Mhz Flat, ripple 1dB

Results:
10 Mhz -145dBm
30 Mhz -145dBm
144Mhz -145dBm
220Mhz -143dBm
432Mhz -140dBm

Could be useful now to have a couple of beta testers to check this confguration and possibly other Inductor arrangements should you be concerned about the gain flatness and IC bias requirement.
Remember to check the IC pin out, the in and out are reversed
Regards
Ed GM3SBC

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
> Sounds like another instance of series set chokes, 100nH & 560nH and a 3.3uH ....
>
> Probably will look odd .....
>
> Mike KC7NOA
>
> To: UHFSDR@yahoogroups.com
> From: dave@...
> Date: Wed, 22 Feb 2012 17:57:39 -0800
> Subject: Re: [UHFSDR] UHFSDR Sensitivity Improvement
>

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> Ed:
>
> If you test the mmic at HF, you will need to increase the value of
> the choke. 1uH will probably be OK to 10 MHz, 3.3 uH for lower.
>
>
>
> Dave - WB6DHW
>
> <http://wb6dhw.com>
>
>
>
> On 2/22/2012 1:15 PM, Ed wrote:
>
>
>
>
> Hello All you UHFSDR lovers,
>
>
>
> I decided to do some further measurements of the MDS on my
> UHFSDR.

>
>
>
> I started by measuring the UHFSDR unmodified in the
> following set up conditions:
>
>
>
> Software: WRplus
>
> PC: ASPIRE One Net book
>
> Signal Generator: HP with additional Microwave
> attenuators.
>
> Mode : CW
>
> Frequency: 144.300 Mhz
>
> Bandwidth: 500Hz
>
> AGC:Off
>
>
>
> The result for 1 dB signal above noise power : -133dBm.
>
>
>
> I then decided to change U4 (BGA612) to a different type
> of MMIC, the SPF5043Z. This is a 50 Mhz to 4 Ghz part with
> high dynamic range. It has a lower noise figure and higher
> gain than the BGA612.
>
> The mod was simple, remove the BGA612, install the
> SPF5043Z taking care to check the different orientation
> and replace R3 (120 ohm)with a 100nH Inductor.
>
>
>
> The result for 1 dB signal above noise power : -145dBm
>
>
>
> So if you want a super sensitive VHF/UHF front end, you
> got it !
>
>
>
> Only possible down side is that the IC starts to degrade

> below 50 Mhz. It could still be adequate for the DC bands
> if you really must use the UHFSDR for that purpose.
>
>
>
> What a remarkable little radio this is.
>
>
>
> Regards
>
>
>
> Ed GM3SBC
>

734. Re: [UHFSDR] Re: UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-02-23 20:39:40 UTC
From: Dave
Topic: 714 Message: 734

Alan:
It is Digi-Key part number 689-1101-1-ND

Dave - WB6DHW
<http://wb6dhw.com>

On 2/23/2012 3:20 AM, tony_g3ovh wrote:
>
> Hi Dave
>
> I cant see a price on Digikey - are you sure you got the right part?
> The Farnell 1 off price in the UK is ?22.15 plus tax and p&p with the
> 100+ price at ?16.61 - obviously a premium part but does anyone want
> to spend that much more?
>
> Tony
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Dave
> <dave@...> wrote:
> >
> > I see Digikey has them in qty 1 for $3.22. What is their performance
> > at HF?
> >
> > Dave - WB6DHW
> > <http://wb6dhw.com>
> >
> > On 2/22/2012 1:32 PM, The Silver Fox wrote:
> > >
> > > Good news. Perhaps we should mod the kits? Chime in Dave if this is
> > > recommended.
> > >
> > > 73's
> > >
> > > Alan -- W6ARH
> >
>
>

735. Re: [UHFSDR] Re: UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-02-23 21:42:25 UTC
From: Sid Boyce
Topic: 714 Message: 735

The Farnell price is scandalous, I don't know how they can justify it.
73 ... Sid.

On 23/02/12 20:39, Dave wrote:
>
> Alan:
> It is Digi-Key part number 689-1101-1-ND
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 2/23/2012 3:20 AM, tony_g3ovh wrote:
>
>> Hi Dave
>>
>> I cant see a price on Digikey - are you sure you got the right part?
>> The Farnell 1 off price in the UK is ?22.15 plus tax and p&p with the
>> 100+ price at ?16.61 - obviously a premium part but does anyone want
>> to spend that much more?
>>
>> Tony
>>
>> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Dave
>> <dave@...> wrote:
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>> > I see Digikey has them in qty 1 for $3.22. What is their performance
>> > at HF?
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>> > Dave - WB6DHW
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>> >
>> > On 2/22/2012 1:32 PM, The Silver Fox wrote:
>> > >
>> > > Good news. Perhaps we should mod the kits? Chime in Dave if this is
>> > > recommended.
>> > >
>> > > 73's
>> > >
>> > > Alan -- W6ARH
>> >
>>
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

736. Fwd: DIGIKEY CUSTOMER SERVICE SAL# 32281542 REFUSAL LETTER

Yahoo group: UHFSDR
Date: 2012-02-23 22:12:56 UTC
From: Stacy Williams
Topic: 736 Message: 736

Dear all

Please forgive me, this is not spam but my experiance today was a bit porky:-)

I feel it is important that other fellow hams are advised about certain policies of Digikey regarding payment of VAT in the UK and, perhaps duties in other countries. Also, it is impotant that our ham cousins in the US observe how we are treated by this Company.

PLEASE look at the link on the digikey.co.uk web-site pertaining to payments of VAT and free delivery on order over £50. Also I would e grateful, if you might make some screen shots so Digikey do not decide to invoke plausable deny-ability.

It is a real privelage, to be involved in some of the projects and groups that Im involved in through the internet. Also, i would like to say thank you to all our Cousins around the world and, in particular the US allowing us to purchase directly and fairly from you in the past and, into the future

With kindest regards & 73
M0WSA
Stacy Williams
---------- Forwarded message ----------
From: "Mitchell Scramstad" <Mitchell.Scramstad@...>
Date: Feb 23, 2012 7:06 PM
Subject: DIGIKEY CUSTOMER SERVICE SAL# 32281542 REFUSAL LETTER
To: "SLATEBLUE69@..." <SLATEBLUE69@...>

Dear STACY WILLIAMS****

****

I received a call from UPS regarding the shipment of the order you placed by internet on 18-FEB-2012. We shipped the package to you via UPS per your request on 20-FEB-2012. UPS has contacted us to advise us that you are refusing the package and have requested that it be returned to Digi-Key. I am contacting you to advise you of the options we have: ****

****

1.) You may accept the package and remit payment for the duties & taxes that is being collected by the courier. ****

****

** **

2.) If the package is not accepted, Digi-Key will need to decide whether to have it returned or abandoned. ****

a.) If the package is returned to us, we will only issue credit to your credit card for the cost of the parts less the return shipping charges to Digi-Key. You will also be responsible for the initial shipping charges. Also, if UPS requires payment of the duties/taxes for the package being returned to the United States, Digi-Key will be billed for these charges from UPS and in turn, we will bill you for these charges ****

b.) If the package is abandoned, you will be charged for the cost of the parts and the initial shipping charges which was invoiced on the original invoice as 51.58 No credit will be issued to you. If UPS requires payment of the duties & taxes that have been accessed by customs, Digi-Key will be billed for these charges from UPS, and in turn, we will bill you for these charges. ****

****

****

** **

Please respond by 24-FEB-2012 with your decision as to whether you will accept the package. If we do not hear from you, Digi-Key will need to make the decision to have the package returned or abandoned. Since we processed & shipped your order as you requested, you will be billed for any additional fees accordingly. ****

****

I am looking forward to hearing from you. ****

****

Sincerely, ****

** **

** **

** **

** **

*Mitchell Scramstad*****

*Digi-Key Corporation*****

International Customer Service ****

218-681-7979****

mitchell.scramstad@... ****

This email and the associated attachments may contain information that is proprietary, privileged, confidential or otherwise protected from disclosure. If you are not the intended recipient or otherwise have received this message in error, you are not authorized to read, print, retain, copy or disseminate this message or any part of it. If you are not the intended recipient or otherwise have received this message in error, please notify us immediately, destroy any paper copies and delete all electronic files of the message.
Thank you. Digi-Key Corporation.

737. Re: [UHFSDR] Fwd: DIGIKEY CUSTOMER SERVICE SAL# 32281542 REFUSAL LETTER

Yahoo group: UHFSDR
Date: 2012-02-23 22:37:33 UTC
From: Sid Boyce
Topic: 736 Message: 737

I have ordered from Digikey in the past and sometimes the shipping on small parts orders have been exhorbitant. Luckily at present I can send a list to a relative in the US and have it shipped to me very cheaply. That's the route I've chosen earlier today for some small parts.

Only yesterday I placed a direct order for a Pandaboard, $170.00 in the US and ?120.00 to UK plus the 20% VAT when it arrives so I decided to go for it.

I have also ordered 1N5822's, AS169's and HMC482's from Hong Kong/China with reasonable shipping rates from Hong Kong. The estimated delivery time was a month and a half but they arrived in about 10 days.

The shipping costs from China via DHL, UPS etc. is also just ridiculous at several times the cost of the items, e.g $20.00 US for the parts and $69 US for shipping.
73 ... Sid.

On 23/02/12 22:12, Stacy Williams wrote:
>
> Dear all
>
> Please forgive me, this is not spam but my experiance today was a bit
> porky:-)
>
> I feel it is important that other fellow hams are advised about
> certain policies of Digikey regarding payment of VAT in the UK and,
> perhaps duties in other countries. Also, it is impotant that our ham
> cousins in the US observe how we are treated by this Company.
>
> PLEASE look at the link on the digikey.co.uk <http://digikey.co.uk>
> web-site pertaining to payments of VAT and free delivery on order over
> ?50. Also I would e grateful, if you might make some screen shots so
> Digikey do not decide to invoke plausable deny-ability.
>
> It is a real privelage, to be involved in some of the projects and
> groups that Im involved in through the internet. Also, i would like
> to say thank you to all our Cousins around the world and, in
> particular the US allowing us to purchase directly and fairly from you
> in the past and, into the future
>
> With kindest regards & 73
> M0WSA
> Stacy Williams
>

> ---------- Forwarded message ----------
> From: "Mitchell Scramstad" <Mitchell.Scramstad@...
> <mailto:Mitchell.Scramstad@...>>
> Date: Feb 23, 2012 7:06 PM
> Subject: DIGIKEY CUSTOMER SERVICE SAL# 32281542 REFUSAL LETTER
> To: "SLATEBLUE69@... <mailto:SLATEBLUE69@...>"
> <SLATEBLUE69@... <mailto:SLATEBLUE69@...>>
>
> Dear STACY WILLIAMS
>
> I received a call from UPS regarding the shipment of the order you
> placed by internet on 18-FEB-2012. We shipped the package to you via
> UPS per your request on 20-FEB-2012. UPS has contacted us to advise us
> that you are refusing the package and have requested that it be
> returned to Digi-Key. I am contacting you to advise you of the
> options we have:
>
> 1.)You may accept the package and remit payment for the duties & taxes
> that is being collected by the courier.
>
> 2.) If the package is not accepted, Digi-Key will need to decide
> whether to have it returned or abandoned.
>
> a.)If the package is returned to us, we will only issue credit to your
> credit card for the cost of the parts less the return shipping charges
> to Digi-Key. You will also be responsible for the initial shipping
> charges. Also, if UPS requires payment of the duties/taxes for the
> package being returned to the United States, Digi-Key will be billed
> for these charges from UPS and in turn, we will bill you for these
> charges
>
> b.)If the package is abandoned, you will be charged for the cost of
> the parts and the initial shipping charges which was invoiced on the
> original invoice as 51.58 No credit will be issued to you. If UPS
> requires payment of the duties & taxes that have been accessed by
> customs, Digi-Key will be billed for these charges from UPS, and in
> turn, we will bill you for these charges.
>
> Please respond by 24-FEB-2012 with your decision as to whether you
> will accept the package. If we do not hear from you, Digi-Key will
> need to make the decision to have the package returned or abandoned.
> Since we processed & shipped your order as you requested, you will be
> billed for any additional fees accordingly.
>
> I am looking forward to hearing from you.
>
> Sincerely,
>
>
> *Mitchell Scramstad*

>
> *Digi-Key Corporation*
>
> *International Customer Service*
>
> 218-681-7979 <tel:218-681-7979>
>
> mitchell.scramstad@... <mailto:mitchell.scramstad@...>
>
>
> This email and the associated attachments may contain information that
> is proprietary, privileged, confidential or otherwise protected from
> disclosure. If you are not the intended recipient or otherwise have
> received this message in error, you are not authorized to read, print,
> retain, copy or disseminate this message or any part of it. If you
> are not the intended recipient or otherwise have received this message
> in error, please notify us immediately, destroy any paper copies and
> delete all electronic files of the message.
> Thank you. Digi-Key Corporation.
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

738. Re: [UHFSDR] Fwd: DIGIKEY CUSTOMER SERVICE SAL# 32281542 REFUSAL LETTER

Yahoo group: UHFSDR
Date: 2012-02-24 08:15:29 UTC
From: Stephen Farthing
Topic: 736 Message: 738

Hi guys,

Actually Digikey are not alone in this. Ordering from Farnell in the UK can be tricky if you are not mindful. Much of their stock is held in the USA for which IIRR there is £15 (roughly $20 US) delivery charge. Then I guess on top of that there will be a 20% VAT and £7 customs inspection charge to pay. When you are ordering stuff you need to click on the "exclude extended stock range" button to avoid this. Actually I ordered all the parts from Farnell to build my UHF SDR partial kit which I must get around to doing.

On a more positive note I ordered some stuff from Farnell the other evening, The transistors came from their Belgium warehouse and were delivered within 18 hours by courier. The rest of the items arrived by post within a day. Because I ordered £30+ worth of stuff I did not pay for shipping.

Sometimes I buy surplus stuff from China (mostly crystals). The retailers always undervalue the goods on the customs invoice no matter what I have paid....

73s Steve G0XAR

--
Wisdom demands a new orientation of science and technology towards the organic, the gentle, the non-violent, the elegant and beautiful. E. F. Schumacher

739. Re: [UHFSDR] Fwd: DIGIKEY CUSTOMER SERVICE SAL# 32281542 REFUSAL LETTER

Yahoo group: UHFSDR
Date: 2012-02-24 09:58:08 UTC
From: Dave
Topic: 736 Message: 739

Stephen:
Newark in the USA plays the same game in reverse. Some of their
stock is in the UK and you must pay a $20 per order charge.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/24/2012 12:15 AM, Stephen Farthing wrote:
>
> Hi guys,
>
>
> Actually Digikey are not alone in this. Ordering from Farnell in the
> UK can be tricky if you are not mindful. Much of their stock is held
> in the USA for which IIRR there is ?15 (roughly $20 US) delivery
> charge. Then I guess on top of that there will be a 20% VAT and ?7
> customs inspection charge to pay. When you are ordering stuff you need
> to click on the "exclude extended stock range" button to avoid this.
> Actually I ordered all the parts from Farnell to build my UHF SDR
> partial kit which I must get around to doing.
>
> On a more positive note I ordered some stuff from Farnell the other
> evening, The transistors came from their Belgium warehouse and were
> delivered within 18 hours by courier. The rest of the items arrived by
> post within a day. Because I ordered ?30+ worth of stuff I did not pay
> for shipping.
>
> Sometimes I buy surplus stuff from China (mostly crystals). The
> retailers always undervalue the goods on the customs invoice no matter
> what I have paid....
>
> 73s Steve G0XAR
>
> --
>
>
>

740. Re: [UHFSDR] Fwd: DIGIKEY CUSTOMER SERVICE SAL# 32281542 REFUSAL LETTER

Yahoo group: UHFSDR
Date: 2012-02-24 11:39:44 UTC
From: Stephen Farthing
Topic: 736 Message: 740

Dave,

That's interesting. May be Newark is Farnell in the USA and Farnell is Newark here.....?

Anyway, if anyone on the list wants stuff from over here i am happy to order and ship it at cost by prior arrangement. I take Paypal. I generally buy from Rapid Electronics and Farnell for the small kitting business I run with Hans G0UPL. So it is no problem to add stuff to the orders and ship it in a bubblewrap envelope airmail.

72s Steve G0XAR

--
Wisdom demands a new orientation of science and technology towards the organic, the gentle, the non-violent, the elegant and beautiful. E. F. Schumacher

741. Re: [UHFSDR] Re: UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-02-24 12:13:27 UTC
From: Stephen Farthing
Topic: 714 Message: 741

Guys,

FWIW this links to a paper by G4DDK and WA5VJB who offers kits, including the 5034Z for £10. See

http://www.g4ddk.com/SPFAMP.pdf

73s Steve G0XAR

--
Wisdom demands a new orientation of science and technology towards the organic, the gentle, the non-violent, the elegant and beautiful. E. F. Schumacher

742. Re: [UHFSDR] Fwd: DIGIKEY CUSTOMER SERVICE SAL# 32281542 REFUSAL LETTER

Yahoo group: UHFSDR
Date: 2012-02-24 13:18:04 UTC
From: Sid Boyce
Topic: 736 Message: 742

I forgot to mention Farnell UK in a much wider context. Even if their parts are stocked in the UK, orders under ?20.00 carry a high shipping charge and if they come from elsewhere in the Farnell empire you get a surprise so it's necessary to be very watchful when ordering.

I normally prefer to order from RS Components if they have parts stocked or from rapidonline.
73 ... Sid.

On 24/02/12 08:15, Stephen Farthing wrote:
>
> Hi guys,
>
>
> Actually Digikey are not alone in this. Ordering from Farnell in the
> UK can be tricky if you are not mindful. Much of their stock is held
> in the USA for which IIRR there is ?15 (roughly $20 US) delivery
> charge. Then I guess on top of that there will be a 20% VAT and ?7
> customs inspection charge to pay. When you are ordering stuff you need
> to click on the "exclude extended stock range" button to avoid this.
> Actually I ordered all the parts from Farnell to build my UHF SDR
> partial kit which I must get around to doing.
>
> On a more positive note I ordered some stuff from Farnell the other
> evening, The transistors came from their Belgium warehouse and were
> delivered within 18 hours by courier. The rest of the items arrived by
> post within a day. Because I ordered ?30+ worth of stuff I did not pay
> for shipping.
>
> Sometimes I buy surplus stuff from China (mostly crystals). The
> retailers always undervalue the goods on the customs invoice no matter
> what I have paid....
>
> 73s Steve G0XAR
>
> --
> Wisdomdemands a new orientation of science and technology towards the
> organic, the gentle, the non-violent, the elegant and beautiful. E. F.
> Schumacher
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,

Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

743. BPF

Yahoo group: UHFSDR
Date: 2012-02-24 18:14:39 UTC
From: Michael
Topic: 743 Message: 743

Hey Dave WB6DHW, do you have a better picture of the bandpass filter thats on your site ??

744. RE: [UHFSDR] L1 choke values

Yahoo group: UHFSDR
Date: 2012-02-24 19:01:56 UTC
From: MIKE DURKIN
Topic: 706 Message: 744

Kinda wanted to do the pair so I know both values are installed. I know that one UHFSDR (recent) has the 3.3uH but my first im not sure ...

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Wed, 22 Feb 2012 23:43:48 -0800
Subject: Re: [UHFSDR] L1 choke values

Mike:

I have 3.3uf but not 560nH. The 3.3uf data sheet shows a SRF of
260 MHz so would be good at least through 220 MHz. Probably good at
420 MHz, although above the SRF.

Mouser lists the 3.3 uf at $0.47. Could ship for a first class
stamp in a regular envelope or $1.64 in a padded envelope.

Dave - WB6DHW

<http://wb6dhw.com>

On 2/22/2012 1:03 PM, MIKE DURKIN wrote:

Could I buy a couple off of you?

Pair of 3.3uf and a pair of 560nH?

Mike KC7NOA

To: UHFSDR@yahoogroups.com

From: dave@...

Date: Wed, 22 Feb 2012 12:42:27 -0800

Subject: Re: [UHFSDR] L1 choke values

Mike:

Using 2 chokes in series, doesn't matter which
comes first. The 560nH value is right from the
mmic data sheet, so should go much higher in
frequency depending on the SRF of the coil.

Dave - WB6DHW

<http://wb6dhw.com>

On 2/22/2012 8:41 AM, MIKE DURKIN wrote:

Has anyone tried more than 2
values of L1(3.3uH & 560nH) in series?

Does it matter which one is tied to the output
of U5?

Id like operation to 700mhz but 480mhz will
do....

Would the 560nH suffice up to 700mhz or?

Also has any one measured the loss of T1? Is
it actually 5db at 500mhz(gleaned from
datasheet) or less ....

745. Re: [UHFSDR] Fwd: DIGIKEY CUSTOMER SERVICE SAL# 32281542 REFUSAL LETTER

Yahoo group: UHFSDR
Date: 2012-02-24 19:30:31 UTC
From: Dave
Topic: 736 Message: 745

Stephen:
Yes, Farnell owns Newark.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/24/2012 3:39 AM, Stephen Farthing wrote:
>
> Dave,
>
>
> That's interesting. May be Newark is Farnell in the USA and Farnell is
> Newark here.....?
>
> Anyway, if anyone on the list wants stuff from over here i am happy to
> order and ship it at cost by prior arrangement. I take Paypal. I
> generally buy from Rapid Electronics and Farnell for the small kitting
> business I run with Hans G0UPL. So it is no problem to add stuff to
> the orders and ship it in a bubblewrap envelope airmail.
>
> 72s Steve G0XAR
>
> --

746. RE: [UHFSDR] L1 choke values

Yahoo group: UHFSDR
Date: 2012-02-24 20:22:46 UTC
From: MIKE DURKIN
Topic: 706 Message: 746

Dang it .. looks like iv lost U5 (HMC482) , can i add it to the list or is this looking like a Digikey order? Signal going into it .. nothin out .. and dont know if it matters bu when 5V is applied to pin 3 (Collector??) the base (pin 1) has 2.5V ... not sure if thats normal or not ... Mike KC7NOA
To: uhfsdr@yahoogroups.com
From: Patriot121@...
Date: Fri, 24 Feb 2012 11:01:56 -0800
Subject: RE: [UHFSDR] L1 choke values

Kinda wanted to do the pair so I know both values are installed. I know that one UHFSDR (recent) has the 3.3uH but my first im not sure ...

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Wed, 22 Feb 2012 23:43:48 -0800
Subject: Re: [UHFSDR] L1 choke values

Mike:

I have 3.3uf but not 560nH. The 3.3uf data sheet shows a SRF of
260 MHz so would be good at least through 220 MHz. Probably good at
420 MHz, although above the SRF.

Mouser lists the 3.3 uf at $0.47. Could ship for a first class
stamp in a regular envelope or $1.64 in a padded envelope.

Dave - WB6DHW

<http://wb6dhw.com>

On 2/22/2012 1:03 PM, MIKE DURKIN wrote:

Could I buy a couple off of you?

Pair of 3.3uf and a pair of 560nH?

Mike KC7NOA

To: UHFSDR@yahoogroups.com

From: dave@...

Date: Wed, 22 Feb 2012 12:42:27 -0800

Subject: Re: [UHFSDR] L1 choke values

Mike:

Using 2 chokes in series, doesn't matter which comes first. The 560nH value is right from the mmic data sheet, so should go much higher in frequency depending on the SRF of the coil.

Dave - WB6DHW

<http://wb6dhw.com>

On 2/22/2012 8:41 AM, MIKE DURKIN wrote:

Has anyone tried more than 2
values of L1(3.3uH & 560nH) in series?

Does it matter which one is tied to the output of U5?

Id like operation to 700mhz but 480mhz will do....

Would the 560nH suffice up to 700mhz or?

Also has any one measured the loss of T1? Is it actually 5db at 500mhz(gleaned from datasheet) or less ....

747. Re: [UHFSDR] BPF

Yahoo group: UHFSDR
Date: 2012-02-24 20:25:11 UTC
From: Dave
Topic: 743 Message: 747

Michael:
The only pictures are on the BPF page at
<http://wb6dhw.com/BPF_front.jpg>
and
<http://wb6dhw.com/BPF_rear.jpg>

Dave - WB6DHW
<http://wb6dhw.com>

On 2/24/2012 10:14 AM, Michael wrote:
>
> Hey Dave WB6DHW, do you have a better picture of the bandpass filter
> thats on your site ??
>
>
>

748. RE: [UHFSDR] BPF

Yahoo group: UHFSDR
Date: 2012-02-24 20:31:03 UTC
From: MIKE DURKIN
Topic: 743 Message: 748

OK, thats way better .. lolC15 that i got from Digikey with the group?? BOM is like 1/3rd that size ... kinda hard to place but after soldering looks like its on both pads ...
To: UHFSDR@yahoogroups.com
From: dave@...m
Date: Fri, 24 Feb 2012 12:25:11 -0800
Subject: Re: [UHFSDR] BPF

Michael:

The only pictures are on the BPF page at

<http://wb6dhw.com/BPF_front.jpg>

and

<http://wb6dhw.com/BPF_rear.jpg>

Dave - WB6DHW

<http://wb6dhw.com>

On 2/24/2012 10:14 AM, Michael wrote:

Hey Dave WB6DHW, do you have a better picture of the
bandpass filter thats on your site ??

749. Re: [UHFSDR] L1 choke values

Yahoo group: UHFSDR
Date: 2012-02-24 20:40:11 UTC
From: Dave
Topic: 706 Message: 749

U5 has been replaced by the MMG3H21NT1.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/24/2012 12:22 PM, MIKE DURKIN wrote:
>
> Dang it .. looks like iv lost U5 (HMC482) , can i add it to the list
> or is this looking like a Digikey order?
>
> Signal going into it .. nothin out .. and dont know if it matters bu
> when 5V is applied to pin 3 (Collector??) the base (pin 1) has 2.5V
> ... not sure if thats normal or not ...
>
> Mike KC7NOA
>
>
>
> ---
> To: uhfsdr@yahoogroups.com
> From: Patriot121@...
> Date: Fri, 24 Feb 2012 11:01:56 -0800
> Subject: RE: [UHFSDR] L1 choke values
>
> Kinda wanted to do the pair so I know both values are installed. I
> know that one UHFSDR (recent) has the 3.3uH but my first im not sure ...
>
> Mike KC7NOA
>
> ---
> To: UHFSDR@yahoogroups.com
> From: dave@...
> Date: Wed, 22 Feb 2012 23:43:48 -0800
> Subject: Re: [UHFSDR] L1 choke values
>
> Mike:
> I have 3.3uf but not 560nH. The 3.3uf data sheet shows a SRF of 260
> MHz so would be good at least through 220 MHz. Probably good at 420
> MHz, although above the SRF.
> Mouser lists the 3.3 uf at $0.47. Could ship for a first class
> stamp in a regular envelope or $1.64 in a padded envelope.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>

> On 2/22/2012 1:03 PM, MIKE DURKIN wrote:
>
>
> Could I buy a couple off of you?
>
> Pair of 3.3uf and a pair of 560nH?
>
> Mike KC7NOA
>
> ---
> To: UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> From: dave@... <mailto:dave@...>
> Date: Wed, 22 Feb 2012 12:42:27 -0800
> Subject: Re: [UHFSDR] L1 choke values
>
> Mike:
> Using 2 chokes in series, doesn't matter which comes first.
> The 560nH value is right from the mmic data sheet, so should go
> much higher in frequency depending on the SRF of the coil.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
>
>
>

750. Re: Si570 CML via Xformers

Yahoo group: UHFSDR
Date: 2012-02-25 02:28:06 UTC
From: davidhooau
Topic: 693 Message: 750

Thanks All,

I'll move the Si570 to the UHFSDR. I'd only be happy connecting via 50 ohm coax, and the current transformer on the QRP2000 tops out at about 250MHz anyway, plus I'd need a 2:1 for T2.

Cheers,

david

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> Mike:
> Possibly. If it is on the QRP2000, you could use twisted pair for
> internconnect.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 2/20/2012 3:48 PM, MIKE DURKIN wrote:
> >
> > Would it be advantageous to put the Si570 on the UHFSDR?
> >
> > ----------
> > To: UHFSDR@yahoogroups.com
> > From: dave@...
> > Date: Mon, 20 Feb 2012 13:40:16 -0800
> > Subject: Re: [UHFSDR] Si570 CML via Xformers
> >
> > Using the LVDS components should match the CML(it needs 100 ohm
> > differential load and a series cap to isolte from the different DC
> > offset of the LVPECL dividors. You don't need to install T2. Go
> > directly from the Si570 outputs to TP6 and TP7. T2 is used for a
> > single ended external oscillator.
> >
> > Dave - WB6DHW
> > <http://wb6dhw.com>
> >
> > On 2/20/2012 2:35 AM, davidhooau wrote:
> >
> > Hi All,
> >
> > I'd like to drive the UHFSDR from an external QRP2000 hosting a
> > CML Si570 (DBA version). My best guess is to use the LVDS resistor
> > and capacitor values on the UHFSDR IQGEN page, and then use the
> > 1:1:1 transformer on the QRP2000 (with no ground jumpers).

> >
> > Has anyone used this configuration? It looks to me that I get a
> > 1:2 mismatch with T2 (on the CLK page).
> >
> > Thanks,
> >
> > davidh
> >
> >
> >
> >
> >
> >
>

751. RE: [UHFSDR] Re: Si570 CML via Xformers

Yahoo group: UHFSDR
Date: 2012-02-25 02:34:07 UTC
From: MIKE DURKIN
Topic: 693 Message: 751

That's where/why I put my Si570BBA LVDS on the UHFSDR .... though im not sure the AVR firmware checks for the "A" grade freq gaps .....

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: dhooke@...
Date: Sat, 25 Feb 2012 02:28:06 +0000
Subject: [UHFSDR] Re: Si570 CML via Xformers

Thanks All,

I'll move the Si570 to the UHFSDR. I'd only be happy connecting via 50 ohm coax, and the current transformer on the QRP2000 tops out at about 250MHz anyway, plus I'd need a 2:1 for T2.

Cheers,

david

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:

>

> Mike:

> Possibly. If it is on the QRP2000, you could use twisted pair for

> internconnect.

>

> Dave - WB6DHW

> <http://wb6dhw.com>

>

> On 2/20/2012 3:48 PM, MIKE DURKIN wrote:

> >

> > Would it be advantageous to put the Si570 on the UHFSDR?

> >

> > ---

> > To: UHFSDR@yahoogroups.com

> > From: dave@...

> > Date: Mon, 20 Feb 2012 13:40:16 -0800

> > Subject: Re: [UHFSDR] Si570 CML via Xformers

> >

> > Using the LVDS components should match the CML(it needs 100 ohm

> > differential load and a series cap to isolte from the different DC

> > offset of the LVPECL dividors. You don't need to install T2. Go

> > directly from the Si570 outputs to TP6 and TP7. T2 is used for a

> > single ended external oscillator.

> >

> > Dave - WB6DHW

> > <http://wb6dhw.com>

> >

> > On 2/20/2012 2:35 AM, davidhooau wrote:

> >

> > Hi All,

> >

> > I'd like to drive the UHFSDR from an external QRP2000 hosting a

> > CML Si570 (DBA version). My best guess is to use the LVDS resistor

> > and capacitor values on the UHFSDR IQGEN page, and then use the

> > 1:1:1 transformer on the QRP2000 (with no ground jumpers).

> >

> > Has anyone used this configuration? It looks to me that I get a

> > 1:2 mismatch with T2 (on the CLK page).

> >

> > Thanks,

> >

> > davidh

> >

> >

> >

> >

> >

> >

>

752. Re: [UHFSDR] L1 choke values

Yahoo group: UHFSDR
Date: 2012-02-25 05:15:26 UTC
From: Dave
Topic: 706 Message: 752

Mike:
2.5V could be normal. The data sheet shows internally a darlington
stage and emitter resisters.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/24/2012 12:22 PM, MIKE DURKIN wrote:
>
> Dang it .. looks like iv lost U5 (HMC482) , can i add it to the list
> or is this looking like a Digikey order?
>
> Signal going into it .. nothin out .. and dont know if it matters bu
> when 5V is applied to pin 3 (Collector??) the base (pin 1) has 2.5V
> ... not sure if thats normal or not ...
>
> Mike KC7NOA
>
>
>
> ---
> To: uhfsdr@yahoogroups.com
> From: Patriot121@...
> Date: Fri, 24 Feb 2012 11:01:56 -0800
> Subject: RE: [UHFSDR] L1 choke values
>
> Kinda wanted to do the pair so I know both values are installed. I
> know that one UHFSDR (recent) has the 3.3uH but my first im not sure ...
>
> Mike KC7NOA
>
> ---
> To: UHFSDR@yahoogroups.com
> From: dave@...
> Date: Wed, 22 Feb 2012 23:43:48 -0800
> Subject: Re: [UHFSDR] L1 choke values
>
> Mike:
> I have 3.3uf but not 560nH. The 3.3uf data sheet shows a SRF of 260
> MHz so would be good at least through 220 MHz. Probably good at 420
> MHz, although above the SRF.
> Mouser lists the 3.3 uf at $0.47. Could ship for a first class
> stamp in a regular envelope or $1.64 in a padded envelope.
>
> Dave - WB6DHW

> <http://wb6dhw.com>
>
> On 2/22/2012 1:03 PM, MIKE DURKIN wrote:
>
>
> Could I buy a couple off of you?
>
> Pair of 3.3uf and a pair of 560nH?
>
> Mike KC7NOA
>
> ---
> To: UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> From: dave@... <mailto:dave@...>
> Date: Wed, 22 Feb 2012 12:42:27 -0800
> Subject: Re: [UHFSDR] L1 choke values
>
> Mike:
> Using 2 chokes in series, doesn't matter which comes first.
> The 560nH value is right from the mmic data sheet, so should go
> much higher in frequency depending on the SRF of the coil.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 2/22/2012 8:41 AM, MIKE DURKIN wrote:
>
>
>
> Has anyone tried more than 2 values of L1(3.3uH & 560nH) in
> series?
>
> Does it matter which one is tied to the output of U5?
>
> Id like operation to 700mhz but 480mhz will do....
>
> Would the 560nH suffice up to 700mhz or?
>
> Also has any one measured the loss of T1? Is it actually 5db
> at 500mhz(gleaned from datasheet) or less ....
>
>
>
>
>
>

753. RE: [UHFSDR] L1 choke values

Yahoo group: UHFSDR
Date: 2012-02-25 05:40:56 UTC
From: MIKE DURKIN
Topic: 706 Message: 753

OK, Well i pulled the new one off hte new unused board .. well just for Rx, and She is transmitting again ....Im quite sure it went south .... need to get that amp from Kees and drive it with one of those wide band amps (1W) from W8DIZ ... should be about right with 50mW - i think im pushing it kinda hard --- audio on the SDR2GO is turned up all the way as far as it will go .... (my bad) Mike KC7NOA
To: UHFSDR@yahoogroups.com
From: dave@wb6dhw.com
Date: Fri, 24 Feb 2012 21:15:26 -0800
Subject: Re: [UHFSDR] L1 choke values

Mike:

2.5V could be normal. The data sheet shows internally a
darlington stage and emitter resisters.

Dave - WB6DHW

<http://wb6dhw.com>

On 2/24/2012 12:22 PM, MIKE DURKIN wrote:

Dang it .. looks like iv lost U5 (HMC482) ,
can i add it to the list or is this looking like a Digikey
order?

Signal going into it .. nothin out .. and dont know if it
matters bu when 5V is applied to pin 3 (Collector??) the
base (pin 1) has 2.5V ... not sure if thats normal or not
...

Mike KC7NOA

To: uhfsdr@yahoogroups.com

From: Patriot121@...

Date: Fri, 24 Feb 2012 11:01:56 -0800

Subject: RE: [UHFSDR] L1 choke values

Kinda wanted to do the pair so I
know both values are installed. I know that one
UHFSDR (recent) has the 3.3uH but my first im
not sure ...

Mike KC7NOA

To: UHFSDR@yahoogroups.com

From: dave@...

Date: Wed, 22 Feb 2012 23:43:48 -0800

Subject: Re: [UHFSDR] L1 choke values

Mike:

I have 3.3uf but not 560nH. The 3.3uf
data sheet shows a SRF of 260 MHz so would
be good at least through 220 MHz.
Probably good at 420 MHz, although above
the SRF.

Mouser lists the 3.3 uf at $0.47.
Could ship for a first class stamp in a
regular envelope or $1.64 in a padded
envelope.

Dave - WB6DHW

<http://wb6dhw.com>

On 2/22/2012 1:03 PM, MIKE DURKIN wrote:

Could I buy a couple
off of you?

Pair of 3.3uf and a pair of 560nH?

Mike KC7NOA

To: UHFSDR@yahoogroups.com

From: dave@...

Date: Wed, 22 Feb 2012 12:42:27
-0800

Subject: Re: [UHFSDR] L1 choke
values

Mike:

Using 2 chokes in series,
doesn't matter which comes
first. The 560nH value is
right from the mmic data
sheet, so should go much
higher in frequency depending
on the SRF of the coil.

Dave - WB6DHW

<http://wb6dhw.com>

On 2/22/2012 8:41 AM, MIKE DURKIN wrote:

Has anyone tried more than 2 values of L1(3.3uH & 560nH) in series?

Does it matter which one is tied to the output of U5?

Id like operation to 700mhz but 480mhz will do....

Would the 560nH suffice up to 700mhz or?

Also has any one measured the loss of T1? Is it actually 5db at 500mhz(gleaned from datasheet) or less ....

754. Re: Fwd: DIGIKEY CUSTOMER SERVICE SAL# 32281542 REFUSAL LETTER

Yahoo group: UHFSDR
Date: 2012-02-25 11:22:15 UTC
From: Clive Jenner
Topic: 736 Message: 754

Farnell, Newark ect are to be come Element14 World wide over the next year or so.

One thing to bear in mind is that for small orders Farnell do not Charge for postage when your order is over ?20-00 nett VAT.

Where as RS Components want postage on orders up to about ?100-00

73 Clive GW0PPO

755. Re: [UHFSDR] Re: Fwd: DIGIKEY CUSTOMER SERVICE SAL# 32281542 REFUSAL LETTER

Yahoo group: UHFSDR
Date: 2012-02-25 11:56:08 UTC
From: Stacy Williams
Topic: 736 Message: 755

Hi Clive

Than you for your kind email.

This has all become a bit of a mine field. However, i agree Farnell will be used for all smallish orders. When in truth, its not really worth putting an order in unless it over £20. For under this ammount, I feel ebay might be as good as any where.

Regards

Stacy
On Feb 25, 2012 11:21 AM, "Clive Jenner" <clivejenner@...> wrote:

> **
>
>
> Farnell, Newark ect are to be come Element14 World wide over the next
> year or so.
>
> One thing to bear in mind is that for small orders Farnell do not Charge
> for postage when your order is over £20-00 nett VAT.
>
> Where as RS Components want postage on orders up to about £100-00
>
> 73 Clive GW0PPO
>
>

756. MCM Electronics PCB Mini SMD Preheater

Yahoo group: UHFSDR
Date: 2012-02-25 14:31:44 UTC
From: wa1wxl4@gmail.com
Topic: 756 Message: 756

I was wondering if anyone has tried the below mentioned Mini SMD Preheater to see how it works.

http://www.mcmelectronics.com/product/21-10135

I see they have it on sale for $59.95 with catalog source code A11309

Regards

Jeff
WA1WXL

757. Re: [UHFSDR] MCM Electronics PCB Mini SMD Preheater

Yahoo group: UHFSDR
Date: 2012-02-25 15:31:04 UTC
From: Stacy Williams
Topic: 756 Message: 757

hiya Jeff

Sorry for the silly, question, but would the preheater be used for just removing smd components or, perhaps when you install them too?

Also, would i still need to use the hotair nozzel in conjunction with the heater to install and remove components?

Regards & 73
m0wsa
Stacy Williams
On Feb 25, 2012 2:31 PM, <wa1wxl4@...> wrote:

> **
>
>
> I was wondering if anyone has tried the below mentioned Mini SMD Preheater
> to see how it works.
>
> http://www.mcmelectronics.com/product/21-10135
>
> I see they have it on sale for $59.95 with catalog source code A11309
>
> Regards
>
> Jeff
> WA1WXL
>
>
>

758. RE: [UHFSDR] MCM Electronics PCB Mini SMD Preheater

Yahoo group: UHFSDR
Date: 2012-02-25 16:03:34 UTC
From: MIKE DURKIN
Topic: 756 Message: 758

Looks like it can be used for removal .... though id rather use a embossing heat gun with a reduction nozzle ....

I do my pub's in a toaster oven .... set the dial with a digital thermometer to 425°F. It takes just under 10 minutes to hit that temp .... slower than advised heat curve ... but im not doing production!!!! Im a ham.... I paid 10$ for the toaster oven ....

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: slateblue69@...
Date: Sat, 25 Feb 2012 15:31:04 +0000
Subject: Re: [UHFSDR] MCM Electronics PCB Mini SMD Preheater

hiya Jeff

Sorry for the silly, question, but would the preheater be used for just removing smd components or, perhaps when you install them too?

Also, would i still need to use the hotair nozzel in conjunction with the heater to install and remove components?

Regards & 73

m0wsa

Stacy Williams

On Feb 25, 2012 2:31 PM, <wa1wxl4@...> wrote:

I was wondering if anyone has tried the below mentioned Mini SMD Preheater to see how it works.

http://www.mcmelectronics.com/product/21-10135

I see they have it on sale for $59.95 with catalog source code A11309

Regards

Jeff

WA1WXL

760. Re: [UHFSDR] Re: Sound cards and PowerSDR-IQ

Yahoo group: UHFSDR
Date: 2012-02-26 07:34:28 UTC
From: w9amr@aol.com
Topic: 681 Message: 760

Hello to those having issues with PSDR setup for voice.

I have some info that I put together that might help those setting up PSDR to run SSB. Email me and I will sent you screen capture's and a text document, It is not very well written but I think it will help get you going if you have issues.

Feel free to ask me questions off list so I don't clutter up the list.

Larry W9AMR

761. Re: Si570 control from PowerSDR

Yahoo group: UHFSDR
Date: 2012-02-26 12:01:31 UTC
From: tony_g3ovh
Topic: 669 Message: 761

Hi All

I built a new cable - 1 metre long with 2 coax cables for the I2C signals. This works perfectly from the PC parallel port with PowerSDR-IQ - no more resetting of the Si570. Thanks for you various advices.
I have just bought a QRP2000 USB synthesizer kit without Si570 from SDR-Kits so I can control the Si570 from a laptop, so a new period of learning will follow soon.

Tony

--- In UHFSDR@yahoogroups.com, Jeff Gray <n9ixw.ham@...> wrote:
>
> On most computer cables, the I/O lines are shielded separately. If the
> shield on both lines is not connected to ground, it is possibly being
> faulted by cross talk between the I/O lines. The higher the data rate the
> worse the cross talk gets.
>

762. Re: [UHFSDR] Re: UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-03-02 07:36:43 UTC
From: Rob Frohne
Topic: 714 Message: 762
Attachments: 1 described; binary payloads are missing from this source WARC

Good job Ed!

Thanks for measuring it at HF for us.

73,

Rob

On 02/23/2012 08:14 AM, Ed wrote:
>
> Hi Dave,
>
> (wrote a big reply and lost it so now out of time, short one !)
>
> Re DC Band operation:
>
> Using a VNA I check the gain response using the 100nH Inductor only
> and below 4 Mhz the gain was several tens of dBs down.
>
> I did not have any other suitable Inductors to hand so decided to
> insert a 47 ohm resistor in series with the 100nH Inductor.
>
> The SPF5043Z bias is now 3.6 volts from the 4.7 volts with the choke
> alone.
>
> Measuring from the J4 socket to C8 output.
>
> 1.5 Mhz to 150 Mhz Flat with a ripple of 0.43dB
> 150 Mhz to 432 Mhz rolling smoothly down by 10dB
> 432 Mhz to 700 Mhz Flat, ripple 1dB
>
> Results:
> 10 Mhz -145dBm
> 30 Mhz -145dBm
> 144Mhz -145dBm
> 220Mhz -143dBm
> 432Mhz -140dBm
>
> Could be useful now to have a couple of beta testers to check this
> confguration and possibly other Inductor arrangements should you be
> concerned about the gain flatness and IC bias requirement.
> ***Remember to check the IC pin out, the in and out are reversed***
> Regards
> Ed GM3SBC
>

> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, MIKE
> DURKIN <Patriot121@...> wrote:
> >
> > Sounds like another instance of series set chokes, 100nH & 560nH and
> a 3.3uH ....
> >
> > Probably will look odd .....
> >
> > Mike KC7NOA
> >
> > To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> > From: dave@...
> > Date: Wed, 22 Feb 2012 17:57:39 -0800
> > Subject: Re: [UHFSDR] UHFSDR Sensitivity Improvement
> >
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> >
> >
> > Ed:
> >
> > If you test the mmic at HF, you will need to increase the value of
> > the choke. 1uH will probably be OK to 10 MHz, 3.3 uH for lower.
> >
> >
> >
> > Dave - WB6DHW
> >

> > <http://wb6dhw.com>
> >
> >
> >
> > On 2/22/2012 1:15 PM, Ed wrote:
> >
> >
> >
> >
> > Hello All you UHFSDR lovers,
> >
> >
> >
> > I decided to do some further measurements of the MDS on my
> > UHFSDR.
> >
> >
> >
> > I started by measuring the UHFSDR unmodified in the
> > following set up conditions:
> >
> >
> >
> > Software: WRplus
> >
> > PC: ASPIRE One Net book
> >
> > Signal Generator: HP with additional Microwave
> > attenuators.
> >
> > Mode : CW
> >
> > Frequency: 144.300 Mhz
> >
> > Bandwidth: 500Hz
> >
> > AGC:Off
> >
> >
> >
> > The result for 1 dB signal above noise power : -133dBm.
> >
> >
> >
> > I then decided to change U4 (BGA612) to a different type
> > of MMIC, the SPF5043Z. This is a 50 Mhz to 4 Ghz part with
> > high dynamic range. It has a lower noise figure and higher
> > gain than the BGA612.
> >
> > The mod was simple, remove the BGA612, install the

> > SPF5043Z taking care to check the different orientation
> > and replace R3 (120 ohm)with a 100nH Inductor.
> >
> >
> >
> > The result for 1 dB signal above noise power : -145dBm
> >
> >
> >
> > So if you want a super sensitive VHF/UHF front end, you
> > got it !
> >
> >
> >
> > Only possible down side is that the IC starts to degrade
> > below 50 Mhz. It could still be adequate for the DC bands
> > if you really must use the UHFSDR for that purpose.
> >
> >
> >
> > What a remarkable little radio this is.
> >
> >
> >
> > Regards
> >
> >
> >
> > Ed GM3SBC
> >
>
>

--
Rob Frohne, Ph.D., P.E.
E.F. Cross School of Engineering
Walla Walla University
100 SW 4th Street
College Place, WA 99324
(509) 527-2075 http://people.wallawalla.edu/~rob.frohne

763. &QRP2000

Yahoo group: UHFSDR
Date: 2012-03-02 19:11:03 UTC
From: MIKE DURKIN
Topic: 763 Message: 763

Anyone using a QRP2000 board with a UHFSDR?

Does the Tx on the QRP2000 need a buffer?

Mike KC7NOA

764. DBM LP Filters

Yahoo group: UHFSDR
Date: 2012-03-03 08:04:47 UTC
From: davidhooau
Topic: 764 Message: 764

Folks,

My UHFSDR is up and running, using the CML version of the Si570. I'd like to modify the DBM filters to allow operation at 192k sample rates, and wondered if anyone had worked out suitable component values.

Cheers,

davidh

765. RE: [powersdr-iq] Re: qrp2000

Yahoo group: UHFSDR
Date: 2012-03-03 14:31:30 UTC
From: MIKE DURKIN
Topic: 765 Message: 765

Hey ... do you know who is the list owner of powerssr-iq?

Iv been unsuscribed ... and i didn't even know it.

To: powersdr-iq@yahoogroups.com
From: CBayona@...
Date: Sat, 25 Feb 2012 13:22:20 -0600
Subject: RE: [powersdr-iq] Re: qrp2000

V15.15 is the latest Fred offers and is what you ordered, no hope

needed it's what I sent you this morning.

At 06:29 PM 2/24/2012, you wrote:

>Had it when the QRP2000 arrived ....

>It reports v1.4...

>

>Just ordered from k5nwa ... hope its THE latest ....

>

>

>----------

>To: powersdr-iq@yahoogroups.com

>From: g8voi.reeves59@...

>Date: Fri, 24 Feb 2012 21:35:14 +0000

>Subject: [powersdr-iq] Re: qrp2000

>

>

>Hi Mike,

>

>Download a copy of Fred PE0FKO's CFGSR configuration program.

>

>When you run that on the main screen it will report the version of

>the SVR firmware that is running.

>

>The QRP2000 USB synth is supplied with the original DG8SAQ v1.4 firmware.

>

>It is much better to replace it with one of Fred's later versions to

>gain all of the enhanced facilities like smooth tuning and storing

>the Si570 frequency calibration in the AVR chip.

>

>You can download CFGSR from:

>

><http://www.pe0fko.nl/CFGSR/>http://www.pe0fko.nl/CFGSR/

>

>73, Bob G8VOI

>

>--- In

><mailto:powersdr-iq%40yahoogroups.com>powersdr-iq@yahoogroups.com,

>MIKE DURKIN <Patriot121@...> wrote:

> >

> > Really have no idea where to ask this question ....

> >

> > Is there a way to verify what firmware version is flashed in a QRP2000 avr?

> >

> > Mike KC7NOA

> >

Cecil

k5nwa

< <http://www.softrockradio.org/>http://www.softrockradio.org/ >

< http://thepartsplace.k5nwa.com/ >

< http://parts.softrockradio.org/ >

Never take life seriously. Nobody gets out alive anyway.

766. Re: [UHFSDR] DBM LP Filters

Yahoo group: UHFSDR
Date: 2012-03-04 04:40:13 UTC
From: Dave
Topic: 764 Message: 766

davidh
C55-C56, L3 and C53-54 and L2 are the 2 filters. I haven't worked
out values for 192 KHz(actually +-96KHz). But, I would think reducing
the 180uH to 120 uH and reducing the 2 series caps to .068uF each should
be close.

Dave - WB6DHW
<http://wb6dhw.com>

On 3/3/2012 12:04 AM, davidhooau wrote:
>
> Folks,
>
> My UHFSDR is up and running, using the CML version of the Si570. I'd
> like to modify the DBM filters to allow operation at 192k sample
> rates, and wondered if anyone had worked out suitable component values.
>
> Cheers,
>
> davidh
>
>

767. Re: Sound cards and PowerSDR-IQ

Yahoo group: UHFSDR
Date: 2012-03-04 14:56:04 UTC
From: tony_g3ovh
Topic: 681 Message: 767

Hi Group

I am finally operational From Larry's info and the document available from SourceForge (and elsewhere) PowerSDR-sr40_Setup.pdf (search on Google) which is a 14 page document explaining how to set up for 2 sound card operation and in particular what the PowerSDR setups do.
My main "gotchas" were to use my external USB SoundBlaster card for both in and out to UHFSDR. However to get microphone audio through the system you have to set up VAC and in particular make sure Mic is ticked as an input source in the "Recording" controls of the PC - without this you can get the internal test tone but not the microphone audio. I thought I had my system working with a different setup and was live on the air when the other G station I was working pointed out I had double sideband transmission, not SSB! That was because I was using PC audio line out to feed the UHFSR, not the audio from the external card which carries the IQ processed audio.
Final tweaks need to made to latency - I am having trouble with delay on Tx audio and echo between PC speakers and the headphone o/p from the UHFSDR - can get rid of it, but it seems to come back after going to Tx and back to Rx. Also, I cannot see how to get the VOX to work since (I believe) the PC mic input is switched off on receive.

Thanks for your help and I hope these additional notes help anyone else who might be struggling

Best regards
Tony G3OVH

--- In UHFSDR@yahoogroups.com, w9amr@... wrote:
>
> Hello to those having issues with PSDR setup for voice.
>
> I have some info that I put together that might help those setting up PSDR
> to run SSB. Email me and I will sent you screen capture's and a text
> document, It is not very well written but I think it will help get you going if
> you have issues.
>
> Feel free to ask me questions off list so I don't clutter up the list.
>
> Larry W9AMR
>

768. Up and running!

Yahoo group: UHFSDR
Date: 2012-03-04 15:44:50 UTC
From: tony_g3ovh
Topic: 768 Message: 768

Hi

I'd like to publicly thank the various correspondents who have helped me get my UHFDSR working with PowerSDR-IQ. I have posted some details of that elsewhere.
Also many thanks to Alan Hill who provided the full kit - I had a few problems with labels falling off a few components, but was able to identify them with a little help from an internet document on package idents for surface mount components - perhaps you could use labels which are more sticky? The packet with the FST3257 was labelled FST3253. ADE2A5K packet was labelled CD542. There were one too few 10K resistors in the kit and I lost one or two components in my carpet tufts and had to substitute a couple of resistors off an old PC card. I lost the tiny diode D1 and was going to have to substitute a wire ended one when I discovered it just by the edge of the table leg. All components were hand soldered - hence the occasional tiddly wink flipping problem off the bench and onto the floor! I would recommend fitting the RG174 jumper from P3 to P4 underneath the board as suggested elsewhere (too late for me) as on top of the board it makes it very difficult to mount some components later. I mounted U9 upside down at first and only found out during testing of that section. Fortunately no damage done as I was able to remove it and reinstall the correct way round.
I did not have frequency control of the Si570 at first so I had to look up the default frequency of my device on the website of Si Labs (19.982MHz).
I had a few problems in testing the t/r rf switching until I found I had forgotten to link H5-2 to H5-3 to enable AS169 levels, and also the logic levels are in error in the assembly document - I found this mentioned elsewhere in this group. The t/r switching seemed a little wrong and I though I might have damaged one of the AS169s - I was getting partial transmission through U7 when it should have been blocking - this may have been because of some mains pickup on these very high impedance circuits - anyway it seems to work OK.
I had to fit a temporary heat sink on the 5V reg U1 as it runs too warm otherwise with the particular power supply I was using which was only slightly over 12V.
I have had my first contacts on HF for many years over the last few days - I am a happy bunny!

Thanks again all
Tony - G3OVH

769. Re: [UHFSDR] Re: Sound cards and PowerSDR-IQ

Yahoo group: UHFSDR
Date: 2012-03-05 03:59:32 UTC
From: w9amr@aol.com
Topic: 681 Message: 769

Hi Tony.

I am glad to see your making progress. There is a monitor function you can turn down. That will stop the eco in TX. The mic audio coming out of the speakers. Sound while RXing is normal. You can use a relay to break the mic audio on RX.The Speaker/Mic needs to be on the default sound card.

Larry W9AMR

In a message dated 3/4/2012 9:56:09 A.M. Eastern Standard Time, tony@... writes:

Hi Group

I am finally operational From Larry's info and the document available from SourceForge (and elsewhere) PowerSDR-sr40_Setup.pdf (search on Google) which is a 14 page document explaining how to set up for 2 sound card operation and in particular what the PowerSDR setups do.
My main "gotchas" were to use my external USB SoundBlaster card for both in and out to UHFSDR. However to get microphone audio through the system you have to set up VAC and in particular make sure Mic is ticked as an input source in the "Recording" controls of the PC - without this you can get the internal test tone but not the microphone audio. I thought I had my system working with a different setup and was live on the air when the other G station I was working pointed out I had double sideband transmission, not SSB! That was because I was using PC audio line out to feed the UHFSR, not the audio from the external card which carries the IQ processed audio.
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Best regards
Tony G3OVH

--- In _UHFSDR@yahoogroups.com_ (mailto:UHFSDR@yahoogroups.com) , w9amr@... wrote:
>
> Hello to those having issues with PSDR setup for voice.
>
> I have some info that I put together that might help those setting up PSDR
> to run SSB. Email me and I will sent you screen capture's and a text

> document, It is not very well written but I think it will help get you going if
> you have issues.
>
> Feel free to ask me questions off list so I don't clutter up the list.
>
> Larry W9AMR
>

770. Communication Concepts

Yahoo group: UHFSDR
Date: 2012-03-06 00:39:59 UTC
From: MIKE DURKIN
Topic: 770 Message: 770

Any one know if Communication Concepts is still selling stuff??

Mike KC7NOA

771. Re: [UHFSDR] Communication Concepts

Yahoo group: UHFSDR
Date: 2012-03-06 01:59:32 UTC
From: Dave
Topic: 770 Message: 771

Mike:
Their website is still up at
<http://www.communication-concepts.com/>

Dave - WB6DHW
<http://wb6dhw.com>

On 3/5/2012 4:39 PM, MIKE DURKIN wrote:
>
> Any one know if Communication Concepts is still selling stuff??
>
> Mike KC7NOA
>
>

772. Re: [UHFSDR] Communication Concepts

Yahoo group: UHFSDR
Date: 2012-03-06 02:29:30 UTC
From: MIKE DURKIN
Topic: 770 Message: 772

Yea ... I emailed them last friday evening ... pretty sure their not open Saturday ... but I figure they don't get such a volume that they can't respond in a full work day ...

-----Original Message-----

From: Dave
Sent: 6 Mar 2012 01:58:59 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Communication Concepts

Mike:
Their website is still up at
<http://www.communication-concepts.com/>

Dave - WB6DHW
<http://wb6dhw.com>

On 3/5/2012 4:39 PM, MIKE DURKIN wrote:
>
> Any one know if Communication Concepts is still selling stuff??
>
> Mike KC7NOA
>
>

773. BCD to MPLPF

Yahoo group: UHFSDR
Date: 2012-03-06 04:00:23 UTC
From: brainerdd
Topic: 773 Message: 773

I just ordered prototype boards for the BCD to MPLPF boards. This board will replace the PCF8574 and the ADuM1251 to allow selection of the filters by BCD command rather than I2C. The testpoints on the BCDto MPLPF board line up with the testpoints next to the PCF8574 and C9.
It will be about 2 weeks before they arrive. For those that already ordered the kit I will send PCB for the shipping cost. For kit orders, I will offer the board and the CD4028 in place of the I2C components(same price).

Dave - WB6DHW
<http://wb6dhw.com>

774. Bands

Yahoo group: UHFSDR
Date: 2012-03-07 21:19:38 UTC
From: MIKE DURKIN
Topic: 774 Message: 774

Are the bands dead this afternoon?
I dint hardly hear anything on the newest built UHFSDR - its controlled with PE0FKO firmware .... yesterday I was listening to 2m repeaters FM.
Mike KC7NOA

775. Re: [UHFSDR] Bands

Yahoo group: UHFSDR
Date: 2012-03-07 21:27:42 UTC
From: Chuck Nolin
Topic: 774 Message: 775

Hello Mike,

Yes, major sun activity and will cause radio communication problems.. CME...

Chuck Nolin
WA6LTV/4

----- Original Message -----
From: "MIKE DURKIN" <Patriot121@...>
To: uhfsdr@yahoogroups.com
Sent: Wednesday, March 7, 2012 4:19:38 PM
Subject: [UHFSDR] Bands

Are the bands dead this afternoon?
I dint hardly hear anything on the newest built UHFSDR - its controlled with PE0FKO firmware .... yesterday I was listening to 2m repeaters FM.
Mike KC7NOA

Yahoo! Groups Links

776. Re: [UHFSDR] Bands

Yahoo group: UHFSDR
Date: 2012-03-07 21:44:15 UTC
From: MIKE DURKIN
Topic: 774 Message: 776

We'll, not even 30m digital ... though 10mhz WWV is coming in good...

-----Original Message-----

From: Chuck Nolin
Sent: 7 Mar 2012 21:27:43 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Bands

Hello Mike,

Yes, major sun activity and will cause radio communication problems.. CME...

Chuck Nolin
WA6LTV/4

----- Original Message -----
From: "MIKE DURKIN" <Patriot121@...>
To: uhfsdr@yahoogroups.com
Sent: Wednesday, March 7, 2012 4:19:38 PM
Subject: [UHFSDR] Bands

Are the bands dead this afternoon?
I dint hardly hear anything on the newest built UHFSDR - its controlled with PE0FKO firmware .... yesterday I was listening to 2m repeaters FM.
Mike KC7NOA

Yahoo! Groups Links

777. Re: [UHFSDR] Bands

Yahoo group: UHFSDR
Date: 2012-03-07 21:53:08 UTC
From: Larry
Topic: 774 Message: 777

The bands suck right now. I guess we got hit with EMF from the sun. I have been listing to one of my local repeaters and they have been talking about it :-(

Larry W9AMR
-----Original Message-----
From: MIKE DURKIN <Patriot121@msn.com>
Sender: UHFSDR@yahoogroups.com
Date: Wed, 7 Mar 2012 13:44:15
To: <UHFSDR@yahoogroups.com>
Reply-To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Bands

We'll, not even 30m digital ... though 10mhz WWV is coming in good...

-----Original Message-----

From: Chuck Nolin
Sent: 7 Mar 2012 21:27:43 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Bands

Hello Mike,

Yes, major sun activity and will cause radio communication problems.. CME...

Chuck Nolin
WA6LTV/4

----- Original Message -----
From: "MIKE DURKIN" <Patriot121@msn.com>
To: uhfsdr@yahoogroups.com
Sent: Wednesday, March 7, 2012 4:19:38 PM
Subject: [UHFSDR] Bands

Are the bands dead this afternoon?
I dint hardly hear anything on the newest built UHFSDR - its controlled with PE0FKO firmware .... yesterday I was listening to 2m repeaters FM.
Mike KC7NOA

Yahoo! Groups Links

778. Truth table

Yahoo group: UHFSDR
Date: 2012-03-08 15:56:01 UTC
From: MIKE DURKIN
Topic: 778 Message: 778

Is there a truth table for the bandpass filter if the input pins to band passed...?

Mike KC7NOA

779. Powersdr and other Software for USBSDR

Yahoo group: UHFSDR
Date: 2012-03-08 23:50:07 UTC
From: Mike
Topic: 779 Message: 779

I am using HPSDR Ozy/Janus as my interface to UFHSDR. The PowerSDR versions that actually work and that provide control of the Si570 don't have the option of 2x rather than 4x systems. I have tried some psdr versions that bombed on start that might have met the requirements. Can anyone tell me which version should be able to use ozy/janus and work at 2x.

Which other software packages will work with ozy/janus.

Thanks

Mike, K7SR

780. RE: [UHFSDR] Powersdr and other Software for USBSDR

Yahoo group: UHFSDR
Date: 2012-03-09 00:07:44 UTC
From: MIKE DURKIN
Topic: 779 Message: 780

That's mot the problem ...you needto get the older Si570 dll .... are you running psdr-iq2.x for Win7?

-----Original Message-----

From: Mike
Sent: 8 Mar 2012 23:50:12 GMT
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Powersdr and other Software for USBSDR

I am using HPSDR Ozy/Janus as my interface to UFHSDR. The PowerSDR versions that actually work and that provide control of the Si570 don't have the option of 2x rather than 4x systems. I have tried some psdr versions that bombed on start that might have met the requirements. Can anyone tell me which version should be able to use ozy/janus and work at 2x.

Which other software packages will work with ozy/janus.

Thanks

Mike, K7SR

781. RE: [UHFSDR] Powersdr and other Software for USBSDR

Yahoo group: UHFSDR
Date: 2012-03-09 00:26:16 UTC
From: MIKE DURKIN
Topic: 779 Message: 781

Try this ... place it in the folder where psdr-iq's .exe is at

http://groups.yahoo.com/group/UHFSDR/files/SV1EIA/OldVersions/SdrSi570Usb.dll

-----Original Message-----

From: Mike
Sent: 8 Mar 2012 23:50:12 GMT
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Powersdr and other Software for USBSDR

I am using HPSDR Ozy/Janus as my interface to UFHSDR. The PowerSDR versions that actually work and that provide control of the Si570 don't have the option of 2x rather than 4x systems. I have tried some psdr versions that bombed on start that might have met the requirements. Can anyone tell me which version should be able to use ozy/janus and work at 2x.

Which other software packages will work with ozy/janus.

Thanks

Mike, K7SR

782. Re: [UHFSDR] Powersdr and other Software for USBSDR

Yahoo group: UHFSDR
Date: 2012-03-09 00:43:11 UTC
From: Jim Sanford
Topic: 779 Message: 782

Mike:
I will soon be running same configuration. What is "2x" and "4x"????
Thanks & 73,
Jim
wb4gcs@...

On 3/8/2012 6:50 PM, Mike wrote:
>
> I am using HPSDR Ozy/Janus as my interface to UFHSDR. The PowerSDR
> versions that actually work and that provide control of the Si570
> don't have the option of 2x rather than 4x systems. I have tried some
> psdr versions that bombed on start that might have met the
> requirements. Can anyone tell me which version should be able to use
> ozy/janus and work at 2x.
>
> Which other software packages will work with ozy/janus.
>
> Thanks
>
> Mike, K7SR
>
>

783. Re: Powersdr and other Software for USBSDR

Yahoo group: UHFSDR
Date: 2012-03-09 00:55:23 UTC
From: Mike
Topic: 779 Message: 783

I neet to download the DLL and see if that solves the problem. The 2x and 4x terms refer to operating frequency of the radio relative to the frequency that the Si570 is operating at. UHFSDR operates at 1/2 the Si570 frequency. Some implementations operate at 1/4 the Si570 frequency.

Mike, K7SR

--- In UHFSDR@yahoogroups.com, Jim Sanford <wb4gcs@...> wrote:
>
> Mike:
> I will soon be running same configuration. What is "2x" and "4x"????
> Thanks & 73,
> Jim
> wb4gcs@...
>
>
>
> On 3/8/2012 6:50 PM, Mike wrote:
> >
> > I am using HPSDR Ozy/Janus as my interface to UFHSDR. The PowerSDR
> > versions that actually work and that provide control of the Si570
> > don't have the option of 2x rather than 4x systems. I have tried some
> > psdr versions that bombed on start that might have met the
> > requirements. Can anyone tell me which version should be able to use
> > ozy/janus and work at 2x.
> >
> > Which other software packages will work with ozy/janus.
> >
> > Thanks
> >
> > Mike, K7SR
> >
> >
>

784. Re: [UHFSDR] Powersdr and other Software for USBSDR

Yahoo group: UHFSDR
Date: 2012-03-09 01:08:36 UTC
From: Dave
Topic: 779 Message: 784

Jim:
2X refers to the LO multiplication factor. For the UHFSDR, the
Si570 is 2X the center frequency. On almost all other SDR's it is 4X.

Dave - WB6DHW
<http://wb6dhw.com>

On 3/8/2012 4:43 PM, Jim Sanford wrote:
>
> Mike:
> I will soon be running same configuration. What is "2x" and "4x"????
> Thanks & 73,
> Jim
> wb4gcs@...
>
>
>
> On 3/8/2012 6:50 PM, Mike wrote:
>
>> I am using HPSDR Ozy/Janus as my interface to UFHSDR. The PowerSDR
>> versions that actually work and that provide control of the Si570
>> don't have the option of 2x rather than 4x systems. I have tried some
>> psdr versions that bombed on start that might have met the
>> requirements. Can anyone tell me which version should be able to use
>> ozy/janus and work at 2x.
>>
>> Which other software packages will work with ozy/janus.
>>
>> Thanks
>>
>> Mike, K7SR
>>
>

785. RE: [UHFSDR] Re: Powersdr and other Software for USBSDR

Yahoo group: UHFSDR
Date: 2012-03-09 01:12:48 UTC
From: MIKE DURKIN
Topic: 779 Message: 785

Mike,K7SR -- you've got mail...

BTY - what os and psdr version are you trying to run?

-----Original Message-----

From: Mike
Sent: 9 Mar 2012 00:55:27 GMT
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Re: Powersdr and other Software for USBSDR

I neet to download the DLL and see if that solves the problem. The 2x and 4x terms refer to operating frequency of the radio relative to the frequency that the Si570 is operating at. UHFSDR operates at 1/2 the Si570 frequency. Some implementations operate at 1/4 the Si570 frequency.

Mike, K7SR

--- In UHFSDR@yahoogroups.com, Jim Sanford <wb4gcs@...> wrote:
>
> Mike:
> I will soon be running same configuration. What is "2x" and "4x"????
> Thanks & 73,
> Jim
> wb4gcs@...
>
>
>
> On 3/8/2012 6:50 PM, Mike wrote:
> >
> > I am using HPSDR Ozy/Janus as my interface to UFHSDR. The PowerSDR
> > versions that actually work and that provide control of the Si570
> > don't have the option of 2x rather than 4x systems. I have tried some
> > psdr versions that bombed on start that might have met the
> > requirements. Can anyone tell me which version should be able to use
> > ozy/janus and work at 2x.
> >
> > Which other software packages will work with ozy/janus.
> >
> > Thanks
> >
> > Mike, K7SR
> >
> >
>

786. (no subject)

Yahoo group: UHFSDR
Date: 2012-03-09 03:05:19 UTC
From: MIKE DURKIN
Topic: 786 Message: 786

Dave - WB6DHW, is there a truth table for the BPF ?

Mike KC7NOA

787. Re: [UHFSDR] Truth table

Yahoo group: UHFSDR
Date: 2012-03-09 05:09:21 UTC
From: Dave
Topic: 778 Message: 787

Mike:
000 = 2.11 MHz CF
001 = 3.51 MHz CF
010 = 5.89 MHz CF
011 = external
100 = external
101 = 9.27 MHz CF
110 = 14.23 MHz CF
111 = 24.71 MHz CF

Dave - WB6DHW
<http://wb6dhw.com>

On 3/8/2012 7:56 AM, MIKE DURKIN wrote:

Is there a truth table for the bandpass filter if the input pins to band passed...?

Mike KC7NOA

788. Input audio levels

Yahoo group: UHFSDR
Date: 2012-03-09 21:18:28 UTC
From: MIKE DURKIN
Topic: 788 Message: 788

Sorry for asking this is already been answered ....

During transit what is the audio input into the ufdsdr normal level peak peak / average? From the sound card ... scope isn't working again and ill haft to use a com.

Mike KC7NOA

789. RE: [UHFSDR] Input audio levels

Yahoo group: UHFSDR
Date: 2012-03-09 21:21:59 UTC
From: MIKE DURKIN
Topic: 788 Message: 789

DVM ... darn auto correct

-----Original Message-----

From: MIKE DURKIN
Sent: 9 Mar 2012 21:18:20 GMT
To: uhfsdr@yahoogroups.com
Subject: [UHFSDR] Input audio levels

Sorry for asking this is already been answered ....

During transit what is the audio input into the ufdsdr normal level peak peak / average?
From the sound card ... scope isn't working again and ill haft to use a com.

Mike KC7NOA

790. Re: [UHFSDR] Input audio levels

Yahoo group: UHFSDR
Date: 2012-03-09 21:31:23 UTC
From: w9amr@aol.com
Topic: 788 Message: 790

Mike

I usually see around 2v .

Larry w9amr

In a message dated 3/9/2012 4:21:51 P.M. Eastern Standard Time,
Patriot121@... writes:

DVM ... darn auto correct

-----Original Message-----

From: MIKE DURKIN
Sent: 9 Mar 2012 21:18:20 GMT
To: uhfsdr@yahoogroups.com
Subject: [UHFSDR] Input audio levels

Sorry for asking this is already been answered ....

During transit what is the audio input into the ufdsdr normal level peak
peak / average? From the sound card ... scope isn't working again and ill
haft to use a com.

Mike KC7NOA

791. Re: [UHFSDR] Input audio levels

Yahoo group: UHFSDR
Date: 2012-03-09 23:39:22 UTC
From: MIKE DURKIN
Topic: 788 Message: 791

Is that P-P or average? Im seeing .9V on the DVM.... avarage

How about at R37/38 , choke side?

-----Original Message-----

From: w9amr@...
Sent: 9 Mar 2012 21:31:30 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Input audio levels

Mike

I usually see around 2v .

Larry w9amr

In a message dated 3/9/2012 4:21:51 P.M. Eastern Standard Time,
Patriot121@... writes:

DVM ... darn auto correct

-----Original Message-----

From: MIKE DURKIN
Sent: 9 Mar 2012 21:18:20 GMT
To: uhfsdr@yahoogroups.com
Subject: [UHFSDR] Input audio levels

Sorry for asking this is already been answered ....

During transit what is the audio input into the ufdsdr normal level peak
peak / average? From the sound card ... scope isn't working again and ill
haft to use a com.

Mike KC7NOA

792. Re: [UHFSDR] Input audio levels

Yahoo group: UHFSDR
Date: 2012-03-10 00:18:05 UTC
From: w9amr@aol.com
Topic: 788 Message: 792

PEP. What are you using for a sound card?

Larry

In a message dated 3/9/2012 6:39:21 P.M. Eastern Standard Time,
Patriot121@... writes:

Is that P-P or average? Im seeing .9V on the DVM.... avarage

How about at R37/38 , choke side?

-----Original Message-----

From: w9amr@...m
Sent: 9 Mar 2012 21:31:30 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Input audio levels

Mike

I usually see around 2v .

Larry w9amr

In a message dated 3/9/2012 4:21:51 P.M. Eastern Standard Time,
Patriot121@... writes:

DVM ... darn auto correct

-----Original Message-----

From: MIKE DURKIN
Sent: 9 Mar 2012 21:18:20 GMT
To: uhfsdr@yahoogroups.com
Subject: [UHFSDR] Input audio levels

Sorry for asking this is already been answered ....

During transit what is the audio input into the ufdsdr normal level peak
peak / average? From the sound card ... scope isn't working again and ill
haft to use a com.

Mike KC7NOA

793. Re: [UHFSDR] Input audio levels

Yahoo group: UHFSDR
Date: 2012-03-10 00:45:50 UTC
From: MIKE DURKIN
Topic: 788 Message: 793

2 different USB soundcards based on the C-Media audio 7.1 Channel IC. Both are USB 2.0 but since Windows only does 16bit im limited to 48khz sampling .... more than enough. Turns out my problem was that I didn't notice HDSDR has a mix gain and Rx power DURING Tx .... I had an accident and the mix gain was set to 5%..... and I didn't see it for over an hour .... lol

Mike KC7NOA

-----Original Message-----

From: w9amr@...
Sent: 10 Mar 2012 00:18:19 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Input audio levels

PEP. What are you using for a sound card?

Larry

In a message dated 3/9/2012 6:39:21 P.M. Eastern Standard Time,
Patriot121@... writes:

Is that P-P or average? Im seeing .9V on the DVM.... avarage

How about at R37/38 , choke side?

-----Original Message-----

From: w9amr@...
Sent: 9 Mar 2012 21:31:30 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Input audio levels

Mike

I usually see around 2v .

Larry w9amr

In a message dated 3/9/2012 4:21:51 P.M. Eastern Standard Time,
Patriot121@... writes:

DVM ... darn auto correct

-----Original Message-----

From: MIKE DURKIN
Sent: 9 Mar 2012 21:18:20 GMT
To: uhfsdr@yahoogroups.com

Subject: [UHFSDR] Input audio levels

Sorry for asking this is already been answered ....

During transit what is the audio input into the ufdsdr normal level peak peak / average? From the sound card ... scope isn't working again and ill haft to use a com.

Mike KC7NOA

794. Re: [UHFSDR] Input audio levels

Yahoo group: UHFSDR
Date: 2012-03-10 01:00:25 UTC
From: MIKE DURKIN
Topic: 788 Message: 794

That's "Tx power during Tx" darn auto correct got me again.

-----Original Message-----

From: MIKE DURKIN
Sent: 10 Mar 2012 00:45:49 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Input audio levels

2 different USB soundcards based on the C-Media audio 7.1 Channel IC. Both are USB 2.0 but since Windows only does 16bit im limited to 48khz sampling .... more than enough. Turns out my problem was that I didn't notice HDSDR has a mix gain and Rx power DURING Tx .... I had an accident and the mix gain was set to 5%..... and I didn't see it for over an hour .... lol

Mike KC7NOA

-----Original Message-----

From: w9amr@...
Sent: 10 Mar 2012 00:18:19 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Input audio levels

PEP. What are you using for a sound card?

Larry

In a message dated 3/9/2012 6:39:21 P.M. Eastern Standard Time,
Patriot121@... writes:

Is that P-P or average? Im seeing .9V on the DVM.... avarage

How about at R37/38 , choke side?

-----Original Message-----

From: w9amr@...
Sent: 9 Mar 2012 21:31:30 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Input audio levels

Mike

I usually see around 2v .

Larry w9amr

In a message dated 3/9/2012 4:21:51 P.M. Eastern Standard Time,
Patriot121@... writes:

DVM ... darn auto correct

-----Original Message-----

From: MIKE DURKIN
Sent: 9 Mar 2012 21:18:20 GMT
To: uhfsdr@yahoogroups.com
Subject: [UHFSDR] Input audio levels

Sorry for asking this is already been answered ....

During transit what is the audio input into the ufdsdr normal level peak
peak / average? From the sound card ... scope isn't working again and ill
haft to use a com.

Mike KC7NOA

795. Re: [UHFSDR] Input audio levels

Yahoo group: UHFSDR
Date: 2012-03-10 03:09:42 UTC
From: w9amr@aol.com
Topic: 788 Message: 795

Hi Mike

That's why I asked about the sound card. The widget doesn't have a mixer. I am glad you got it! I have puzzled over issues like this too, just to find out it was a simple setting. This stuff is fun! And a learning experience.

Larry W9AMR

In a message dated 3/9/2012 8:00:18 P.M. Eastern Standard Time, Patriot121@... writes:

That's "Tx power during Tx" darn auto correct got me again.

-----Original Message-----

From: MIKE DURKIN
Sent: 10 Mar 2012 00:45:49 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Input audio levels

2 different USB soundcards based on the C-Media audio 7.1 Channel IC. Both are USB 2.0 but since Windows only does 16bit im limited to 48khz sampling .... more than enough. Turns out my problem was that I didn't notice HDSDR has a mix gain and Rx power DURING Tx .... I had an accident and the mix gain was set to 5%..... and I didn't see it for over an hour .... lol

Mike KC7NOA

-----Original Message-----

From: w9amr@...
Sent: 10 Mar 2012 00:18:19 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Input audio levels

PEP. What are you using for a sound card?

Larry

In a message dated 3/9/2012 6:39:21 P.M. Eastern Standard Time, Patriot121@... writes:

Is that P-P or average? Im seeing .9V on the DVM.... avarage

How about at R37/38 , choke side?

-----Original Message-----

From: w9amr@aol.com
Sent: 9 Mar 2012 21:31:30 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Input audio levels

Mike

I usually see around 2v .

Larry w9amr

In a message dated 3/9/2012 4:21:51 P.M. Eastern Standard Time,
Patriot121@... writes:

DVM ... darn auto correct

-----Original Message-----

From: MIKE DURKIN
Sent: 9 Mar 2012 21:18:20 GMT
To: uhfsdr@yahoogroups.com
Subject: [UHFSDR] Input audio levels

Sorry for asking this is already been answered ....

During transit what is the audio input into the ufdsdr normal level peak
peak / average? From the sound card ... scope isn't working again and ill
haft to use a com.

Mike KC7NOA

796. Build problems U10 Receive audio op-amps

Yahoo group: UHFSDR
Date: 2012-03-10 13:28:28 UTC
From: rubines2000
Topic: 796 Message: 796

Hi

I am in te process of building my UhfSdr page 5.

The test for the Receive audio op-amps stage is the following:

112. Connect Line-Out cable to PC sound card
113. Apply 10 to 15V to P1-1, Ground to P1-2
114. Run IQGEN.exe on PC. Set one tone to 1000 Hz at max level.
115. Monitor U10-1 and U10-7 with oscilloscope. If no oscilloscope is available, connect a cable from J2 to Line-In on PC audio card and run a PC audio oscilloscope program. One channel will show a 1000 Hz sine wave approx ____ Vp-p. The other channel will show a 1000 Hz sine wave approx _____ Vp-p.

Unfortionately I don't see a sine wave on U10-1 and -7.
On the scope there is more or less a flat line.

I am also not sure how the signal should get from the tx stage and U9 where the signal is fed to, to the receive stage and U10.

Did I do something wrong?
Where should I look for the error?

Cheers
Michael OE1MIS

797. Re: [UHFSDR] Build problems U10 Receive audio op-amps

Yahoo group: UHFSDR
Date: 2012-03-10 16:45:57 UTC
From: Dave
Topic: 796 Message: 797

Michael:
Check at U9-2 and U9-6. That is the input from the soundcard
output. You should see a large(1 or 2 volt peak to peak) signal.

Dave - WB6DHW
<http://wb6dhw.com>

On 3/10/2012 5:28 AM, rubines2000 wrote:
>
> Hi
>
> I am in te process of building my UhfSdr page 5.
>
> The test for the Receive audio op-amps stage is the following:
>
> 112. Connect Line-Out cable to PC sound card
> 113. Apply 10 to 15V to P1-1, Ground to P1-2
> 114. Run IQGEN.exe on PC. Set one tone to 1000 Hz at max level.
> 115. Monitor U10-1 and U10-7 with oscilloscope. If no oscilloscope is
> available, connect a cable from J2 to Line-In on PC audio card and run
> a PC audio oscilloscope program. One channel will show a 1000 Hz sine
> wave approx ____ Vp-p. The other channel will show a 1000 Hz sine wave
> approx _____ Vp-p.
>
> ---
>
> Unfortionately I don't see a sine wave on U10-1 and -7.
> On the scope there is more or less a flat line.
>
> I am also not sure how the signal should get from the tx stage and U9
> where the signal is fed to, to the receive stage and U10.
>
> Did I do something wrong?
> Where should I look for the error?
>
> Cheers
> Michael OE1MIS
>
>
>
>

798. Re: Build problems U10 Receive audio op-amps

Yahoo group: UHFSDR
Date: 2012-03-10 16:51:47 UTC
From: rubines2000
Topic: 796 Message: 798

Hi Dave

Thank you for your help.
U9 works, amplicication is 1:1. What makes me wonder, is that the same test is suggested for U10 and I hve no idea how the signal should get from the line out over U9 to U10.

Cheers
Michael OE1MIS

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> Michael:
> Check at U9-2 and U9-6. That is the input from the soundcard
> output. You should see a large(1 or 2 volt peak to peak) signal.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 3/10/2012 5:28 AM, rubines2000 wrote:
> >
> > Hi
> >
> > I am in te process of building my UhfSdr page 5.
> >
> > The test for the Receive audio op-amps stage is the following:
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> > 115. Monitor U10-1 and U10-7 with oscilloscope. If no oscilloscope is
> > available, connect a cable from J2 to Line-In on PC audio card and run
> > a PC audio oscilloscope program. One channel will show a 1000 Hz sine
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> > Unfortionately I don't see a sine wave on U10-1 and -7.
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> > Did I do something wrong?
> > Where should I look for the error?
> >

> > Cheers
> > Michael OE1MIS
> >
> >
> >
> >
>

799. Re: [UHFSDR] Re: Build problems U10 Receive audio op-amps

Yahoo group: UHFSDR
Date: 2012-03-10 17:14:06 UTC
From: Dave
Topic: 796 Message: 799

Michael:
The 2 temporary wires installed in steps 98-99 connected the input
signal to the receive preamp through R5 and R6.

Dave - WB6DHW
<http://wb6dhw.com>

On 3/10/2012 8:51 AM, rubines2000 wrote:
>
> Hi Dave
>
> Thank you for your help.
> U9 works, amplicication is 1:1. What makes me wonder, is that the same
> test is suggested for U10 and I hve no idea how the signal should get
> from the line out over U9 to U10.
>
> Cheers
> Michael OE1MIS
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Dave
> <dave@...> wrote:
> >
> > Michael:
> > Check at U9-2 and U9-6. That is the input from the soundcard
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> > > Cheers
> > > Michael OE1MIS
> > >
> > >
> > >
> > >
> >
>
>

800. Re: Build problems U10 Receive audio op-amps

Yahoo group: UHFSDR
Date: 2012-03-10 17:23:20 UTC
From: rubines2000
Topic: 796 Message: 800

Hi Dave

Oh god,...
I removed them after the transistor test.
Since I meanwhile soldered U9, could I route U8-9 to U8-2 and U8-12 to U8-5 to test the receive op amp stage ?

Thank you for you help.

Cheers
Michael

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> Michael:
> The 2 temporary wires installed in steps 98-99 connected the input
> signal to the receive preamp through R5 and R6.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
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> On 3/10/2012 8:51 AM, rubines2000 wrote:
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> > Hi Dave
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> > Thank you for your help.
> > U9 works, amplicication is 1:1. What makes me wonder, is that the same
> > test is suggested for U10 and I hve no idea how the signal should get
> > from the line out over U9 to U10.
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> > Cheers
> > Michael OE1MIS
> >
> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Dave
> > <dave@> wrote:
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> > > Michael:
> > > Check at U9-2 and U9-6. That is the input from the soundcard
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> > > >
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> > > > Unfortionately I don't see a sine wave on U10-1 and -7.
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> > > >
> > > > I am also not sure how the signal should get from the tx stage and U9
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> > > >
> > > > Did I do something wrong?
> > > > Where should I look for the error?
> > > >
> > > > Cheers
> > > > Michael OE1MIS
> > > >
> > > >
> > > >
> > > >
> > >
> >
>

801. Re: [UHFSDR] Re: Build problems U10 Receive audio op-amps

Yahoo group: UHFSDR
Date: 2012-03-10 22:32:47 UTC
From: Dave
Topic: 796 Message: 801

Michael:
No, that would put too much signal into the pre-amp(would not hurt
it, but the output would be very distorted. Going through the 10K
resister attenuates the signal since the input impedance of the audio
pre-amp is close to 50 ohms.

Dave - WB6DHW
<http://wb6dhw.com>

On 3/10/2012 9:23 AM, rubines2000 wrote:
>
> Hi Dave
>
> Oh god,...
> I removed them after the transistor test.
> Since I meanwhile soldered U9, could I route U8-9 to U8-2 and U8-12 to
> U8-5 to test the receive op amp stage ?
>
> Thank you for you help.
>
> Cheers
> Michael
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Dave
> <dave@...> wrote:
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> > > Cheers
> > > Michael OE1MIS

> > >
> > > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
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> > > <dave@> wrote:
> > > >
> > > > Michael:
> > > > Check at U9-2 and U9-6. That is the input from the soundcard
> > > > output. You should see a large(1 or 2 volt peak to peak) signal.
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> > > > Dave - WB6DHW
> > > > <http://wb6dhw.com>
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> > > > On 3/10/2012 5:28 AM, rubines2000 wrote:
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> > > > > Cheers
> > > > > Michael OE1MIS
> > > > >
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802. Re: Build problems U10 Receive audio op-amps

Yahoo group: UHFSDR
Date: 2012-03-11 11:29:21 UTC
From: rubines2000
Topic: 796 Message: 802

Hi Dave

Thank you for your help, I could meanwhile verify the function of U10, by simply injecting the signal to pin 2 and 5 of U8 over a 10k resistor.

Please excuse this probably dumb question, but what for do I need the spkr output ?

Cheers
Michael OE1MIS

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> Michael:
> No, that would put too much signal into the pre-amp(would not hurt
> it, but the output would be very distorted. Going through the 10K
> resister attenuates the signal since the input impedance of the audio
> pre-amp is close to 50 ohms.
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> Dave - WB6DHW
> <http://wb6dhw.com>
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>
> On 3/10/2012 9:23 AM, rubines2000 wrote:
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> > Hi Dave
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> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Dave
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> > > The 2 temporary wires installed in steps 98-99 connected the input
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> > > Dave - WB6DHW
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> > >

> > > On 3/10/2012 8:51 AM, rubines2000 wrote:
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> > > > > >
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> > > > > >
> > > > > > I am also not sure how the signal should get from the tx stage
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>

803. FW: Board arrived

Yahoo group: UHFSDR
Date: 2012-03-13 01:50:31 UTC
From: The Silver Fox
Topic: 803 Message: 803

Anyone know?

73's

Alan - W6ARH

From: Nigel Andrews [mailto:n.andrews@...]
Sent: Monday, March 12, 2012 6:40 PM
To: 'Alan Hill'
Subject: Board arrived

Hi Alan,

Kit arrived safely, thanks. Question: What is the difference between
UHFSDR_R1 and R1a? The current documentation shows _R1 ?

Thanks

Nigel

o Nigel Andrews- Engineering / Sales

1A/13 Steel Street (upstairs)

Capalaba

Queensland 4157

Australia

- PO BOX 114, Capalaba, Queensland Australia 4157
(Mobile 0419989288

* n.andrews@...

Skype - rv7pilot

Andrews Electronics Designs Pty Ltd

ABN - 921-33392140

Electronics engineering for the future

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804. Re: [UHFSDR] FW: Board arrived

Yahoo group: UHFSDR
Date: 2012-03-13 02:23:54 UTC
From: Dave
Topic: 803 Message: 804

I had to go back through the previous Gerbers(I should have been keeping a running list of changes). The footprint for L1 was made larger on R1a. Everything else is the same.

Dave - WB6DHW
<http://wb6dhw.com>

On 3/12/2012 6:50 PM, The Silver Fox wrote:
>
> Anyone know?
>
> 73's
>
> Alan -- W6ARH
>
> *From:*Nigel Andrews [mailto:n.andrews@...]
> *Sent:* Monday, March 12, 2012 6:40 PM
> *To:* 'Alan Hill'
> *Subject:* Board arrived
>
> Hi Alan,
>
> Kit arrived safely, thanks. Question: What is the difference between
> UHFSDR_R1 and R1a? The current documentation shows _R1 ?
>
> Thanks
>
> Nigel
>
>

805. Re: [UHFSDR] FW: Board arrived

Yahoo group: UHFSDR
Date: 2012-03-13 02:23:52 UTC
From: Sid Boyce
Topic: 803 Message: 805

Dave's the man.
Both of mine are _r1a and I didn't have any problems building them using
the available documentation.
I never noticed the docmentation said _r1.
Probably minor differences in PCB routing.
73 ... Sid.

On 13/03/12 01:50, The Silver Fox wrote:
>
> Anyone know?
>
> 73's
>
> Alan -- W6ARH
>
> *From:*Nigel Andrews [mailto:n.andrews@...]
> *Sent:* Monday, March 12, 2012 6:40 PM
> *To:* 'Alan Hill'
> *Subject:* Board arrived
>
> Hi Alan,
>
> Kit arrived safely, thanks. Question: What is the difference between
> UHFSDR_R1 and R1a? The current documentation shows _R1 ?
>
> Thanks
>
> Nigel
>
> */o/**/ Nigel Andrews--/**/Engineering / Sales/*
>
> 1A/13 Steel Street (upstairs)
>
> Capalaba
>
> Queensland 4157
>
> Australia
>
> - PO BOX 114, Capalaba, Queensland Australia 4157
> (Mobile 0419989288
>
> *n.andrews@...
> <mailto:n.andrews@...>
>

> Skype - rv7pilot
>
> *Andrews Electronics Designs Pty Ltd*
>
> ABN - 921-33392140
>
> Electronics engineering for the future
>
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> omitted in reliance on the information is unauthorised. If you
> received this communication in error, please notify the sender
> immediately and delete it from your computer system network.
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

806. UHFSDR ENCLOSURE!

Yahoo group: UHFSDR
Date: 2012-03-15 17:33:06 UTC
From: Gareth
Topic: 806 Message: 806

Hi there to all in the group.
Does any one know where I could get a good make of enclosure for the board as my local people are not helpful.
It would be nice to get an already made up one in metal for shielding and so on.
I am having a hard time in building the kit but nevermind!!
Well bye for now
73's
Gareth 2E0GGO.

807. Re: UHFSDR ENCLOSURE!

Yahoo group: UHFSDR
Date: 2012-03-15 18:07:26 UTC
From: Stephen Farthing
Topic: 806 Message: 807

Hi Gareth,

Enclosures come in many shapes and forms. Providing the UHFSDR board fits in it and anything else (Band Pass Filters, Low Pass Filters, PSU) and there is space on the front and/or rear panels for connectors pretty much anything should do. You could try and make one yourself out of PCB stock. Whatever case you end up with you will have to drill for the connectors anyway, and paint, labels etc which could mar one of those nice expensive cases made by people like Hammond...

73s from Budapest,

Steve G0XAR

--
Wisdom demands a new orientation of science and technology towards the organic, the gentle, the non-violent, the elegant and beautiful. E. F. Schumacher

808. RE: [UHFSDR] Re: UHFSDR ENCLOSURE!

Yahoo group: UHFSDR
Date: 2012-03-15 20:03:46 UTC
From: Eric Haskell
Topic: 806 Message: 808

Gareth,

I have a presentation about my UHF-SDR and enclosure. See
http://www.ntms.org/files/KC4YOE_UHFSDR-USB2SDR.pdf

Eric Haskell

To: UHFSDR@yahoogroups.com
From: squirrox@...
Date: Thu, 15 Mar 2012 18:07:26 +0000
Subject: [UHFSDR] Re: UHFSDR ENCLOSURE!

Hi Gareth,
Enclosures come in many shapes and forms. Providing the UHFSDR board fits in it and anything else (Band Pass Filters, Low Pass Filters, PSU) and there is space on the front and/or rear panels for connectors pretty much anything should do. You could try and make one yourself out of PCB stock. Whatever case you end up with you will have to drill for the connectors anyway, and paint, labels etc which could mar one of those nice expensive cases made by people like Hammond...

73s from Budapest,
Steve G0XAR

--
Wisdom demands a new orientation of science and technology towards the organic, the gentle, the non-violent, the elegant and beautiful. E. F. Schumacher

809. Re: UHFSDR ENCLOSURE!

Yahoo group: UHFSDR
Date: 2012-03-15 23:20:15 UTC
From: Ed
Topic: 806 Message: 809

Hi ,

A good enclosure for that ONE board, as you asked, is demonstrated in the Files section re GM3SBC. Please see my message on the Eddystone Diecast Box for the UHFSDR.

Regards
Ed GM3SBC

--- In UHFSDR@yahoogroups.com, "Gareth" <albatross579@...> wrote:
>
> Hi there to all in the group.
> Does any one know where I could get a good make of enclosure for the board as my local people are not helpful.
> It would be nice to get an already made up one in metal for shielding and so on.
> I am having a hard time in building the kit but nevermind!!
> Well bye for now
> 73's
> Gareth 2E0GGO.
>

810. The Oscillating PA

Yahoo group: UHFSDR
Date: 2012-03-15 23:34:59 UTC
From: Ed
Topic: 810 Message: 810

Hi All,

Since enclosing my UHFSDR in a box, as shown in the files section under GM3SBC, I started to observe the fact that I was getting RF power out while in the TX mode WITHOUT any TX drive. It turned out to be the TX mmic oscillating. The fix was to place a 470 ohm resistor in parallel with the inductor which is connected at the TX mmic output. This modification did not appear to cause any reduction in output power at several frequencies tested.

Regards
Ed GM3SBC

811. RE: [UHFSDR] The Oscillating PA

Yahoo group: UHFSDR
Date: 2012-03-15 23:57:39 UTC
From: MIKE DURKIN
Topic: 810 Message: 811

Did you have the 3.3uH or 560nH ... seriesd them both? How high in freq did you go ... have a "C" or "A"grade Si570?

-----Original Message-----

From: Ed
Sent: 15 Mar 2012 23:35:03 GMT
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] The Oscillating PA

Hi All,

Since enclosing my UHFSDR in a box, as shown in the files section under GM3SBC, I started to observe the fact that I was getting RF power out while in the TX mode WITHOUT any TX drive. It turned out to be the TX mmic oscillating. The fix was to place a 470 ohm resistor in parallel with the inductor which is connected at the TX mmic output. This modification did not appear to cause any reduction in output power at several frequencies tested.

Regards
Ed GM3SBC

812. Re: The Oscillating PA

Yahoo group: UHFSDR
Date: 2012-03-16 11:30:35 UTC
From: Ed
Topic: 810 Message: 812

Hi Mike,
I had the original 3.3uH only to start with. It was oscillating in this configuration. The 470 ohm in parallel fixed the problem. I then removed the 470 ohm and placed a 100nH in series with the 3.3uH, it was oscillating. I then placed the 470 ohm in parallel with the two inductors, the PA was stable. The maximum frequency I checked the power output was 144 Mhz. The conclusion was the 470 ohm does not reduce the output level at that frequency.

Top grade Si570

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
> Did you have the 3.3uH or 560nH ... seriesd them both? How high in freq did you go ... have a "C" or "A"grade Si570?
>
> -----Original Message-----
>
> From: Ed
> Sent: 15 Mar 2012 23:35:03 GMT
> To: UHFSDR@yahoogroups.com
> Subject: [UHFSDR] The Oscillating PA
>
> Hi All,
>
> Since enclosing my UHFSDR in a box, as shown in the files section under GM3SBC, I started to observe the fact that I was getting RF power out while in the TX mode WITHOUT any TX drive. It turned out to be the TX mmic oscillating. The fix was to place a 470 ohm resistor in parallel with the inductor which is connected at the TX mmic output. This modification did not appear to cause any reduction in output power at several frequencies tested.
>
> Regards
> Ed GM3SBC
>

813. RE: [UHFSDR] Re: The Oscillating PA

Yahoo group: UHFSDR
Date: 2012-03-16 14:51:31 UTC
From: MIKE DURKIN
Topic: 810 Message: 813

Ok ... good deal to hear. Ill copy the same parts values..... I need to get a few 100nH inductors ... I have 3 UHFSDR 's ... 2 built - one to go. Even have a few "A"grade Si570 extra to my needs.

Mike KC7NOA

-----Original Message-----

From: Ed
Sent: 16 Mar 2012 11:30:40 GMT
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Re: The Oscillating PA

Hi Mike,
I had the original 3.3uH only to start with. It was oscillating in this configuration. The 470 ohm in parallel fixed the problem. I then removed the 470 ohm and placed a 100nH in series with the 3.3uH, it was oscillating. I then placed the 470 ohm in parallel with the two inductors, the PA was stable. The maximum frequency I checked the power output was 144 Mhz. The conclusion was the 470 ohm does not reduce the output level at that frequency.

Top grade Si570

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
> Did you have the 3.3uH or 560nH ... seriesd them both? How high in freq did you go ... have a "C" or "A"grade Si570?
>
> -----Original Message-----
>
> From: Ed
> Sent: 15 Mar 2012 23:35:03 GMT
> To: UHFSDR@yahoogroups.com
> Subject: [UHFSDR] The Oscillating PA
>
> Hi All,
>
> Since enclosing my UHFSDR in a box, as shown in the files section under GM3SBC, I started to observe the fact that I was getting RF power out while in the TX mode WITHOUT any TX drive. It turned out to be the TX mmic oscillating. The fix was to place a 470 ohm resistor in parallel with the inductor which is connected at the TX mmic output. This modification did not appear to cause any reduction in output power at several frequencies tested.
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> Regards
> Ed GM3SBC
>

814. Re: [UHFSDR] Re: The Oscillating PA

Yahoo group: UHFSDR
Date: 2012-03-16 22:49:25 UTC
From: Sid Boyce
Topic: 810 Message: 814

Hi Mike,
How much? I can take 2 if you can spare them and Paypal you the money.
73 ... Sid.

On 16/03/12 14:51, MIKE DURKIN wrote:
>
> Ok ... good deal to hear. Ill copy the same parts values..... I need
> to get a few 100nH inductors ... I have 3 UHFSDR 's ... 2 built - one
> to go. Even have a few "A"grade Si570 extra to my needs.
>
> Mike KC7NOA
>
> -----Original Message-----
>
> From: Ed
> Sent: 16 Mar 2012 11:30:40 GMT
> To: UHFSDR@yahoogroups.com
> Subject: [UHFSDR] Re: The Oscillating PA
>
> Hi Mike,
> I had the original 3.3uH only to start with. It was oscillating in
> this configuration. The 470 ohm in parallel fixed the problem. I then
> removed the 470 ohm and placed a 100nH in series with the 3.3uH, it
> was oscillating. I then placed the 470 ohm in parallel with the two
> inductors, the PA was stable. The maximum frequency I checked the
> power output was 144 Mhz. The conclusion was the 470 ohm does not
> reduce the output level at that frequency.
>
> Top grade Si570
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, MIKE
> DURKIN <Patriot121@...> wrote:
> >
> > Did you have the 3.3uH or 560nH ... seriesd them both? How high in
> freq did you go ... have a "C" or "A"grade Si570?
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> > -----Original Message-----
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> > From: Ed
> > Sent: 15 Mar 2012 23:35:03 GMT
> > To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> > Subject: [UHFSDR] The Oscillating PA
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> > Hi All,
> >

> > Since enclosing my UHFSDR in a box, as shown in the files section
> under GM3SBC, I started to observe the fact that I was getting RF
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> be the TX mmic oscillating. The fix was to place a 470 ohm resistor in
> parallel with the inductor which is connected at the TX mmic output.
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--
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815. Re: [UHFSDR] Re: The Oscillating PA

Yahoo group: UHFSDR
Date: 2012-03-17 00:54:25 UTC
From: MIKE DURKIN
Topic: 810 Message: 815

Hey Sid .... iv got 4 .... iv had them listed on crags list and Qrz with no bites till now ... 3@BAA and one BBA

What do you think is fair ?... and ill ask if you have any nH SMD inductors ... iv talked with some one (and I can't remember right now who) that used a 100nH in series with the 3.3uH.... Part trade?

-----Original Message-----

From: Sid Boyce
Sent: 16 Mar 2012 22:49:33 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: The Oscillating PA

Hi Mike,
How much? I can take 2 if you can spare them and Paypal you the money.
73 ... Sid.

On 16/03/12 14:51, MIKE DURKIN wrote:
>
> Ok ... good deal to hear. Ill copy the same parts values..... I need
> to get a few 100nH inductors ... I have 3 UHFSDR 's ... 2 built - one
> to go. Even have a few "A"grade Si570 extra to my needs.
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> Mike KC7NOA
>
> -----Original Message-----
>
> From: Ed
> Sent: 16 Mar 2012 11:30:40 GMT
> To: UHFSDR@yahoogroups.com
> Subject: [UHFSDR] Re: The Oscillating PA
>
> Hi Mike,
> I had the original 3.3uH only to start with. It was oscillating in
> this configuration. The 470 ohm in parallel fixed the problem. I then
> removed the 470 ohm and placed a 100nH in series with the 3.3uH, it
> was oscillating. I then placed the 470 ohm in parallel with the two
> inductors, the PA was stable. The maximum frequency I checked the
> power output was 144 Mhz. The conclusion was the 470 ohm does not
> reduce the output level at that frequency.
>
> Top grade Si570
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> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, MIKE
> DURKIN <Patriot121@...> wrote:

> >
> > Did you have the 3.3uH or 560nH ... seriesd them both? How high in
> freq did you go ... have a "C" or "A"grade Si570?
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> > From: Ed
> > Sent: 15 Mar 2012 23:35:03 GMT
> > To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
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> parallel with the inductor which is connected at the TX mmic output.
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> > Regards
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>

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Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
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816. Re: [UHFSDR] Re: The Oscillating PA

Yahoo group: UHFSDR
Date: 2012-03-17 01:42:43 UTC
From: Sid Boyce
Topic: 810 Message: 816

I have no idea what they sell for, but I'd like them for insurance as
the 2 free samples I got from SiLabs failed as did one I got from G1CET.
My guess is the free samples were ones that didn't pass testing.

I have no SMD inductors spare. It was GM3SBC in this post.

Hi Mike,
I had the original 3.3uH only to start with. It was oscillating in this
configuration. The 470 ohm in parallel fixed the problem. I then removed
the 470 ohm and placed a 100nH in series with the 3.3uH, it was
oscillating. I then placed the 470 ohm in parallel with the two
inductors, the PA was stable. The maximum frequency I checked the power
output was 144 Mhz. The conclusion was the 470 ohm does not reduce the
output level at that frequency.

Top grade Si570
---
73 ... Sid.

On 17/03/12 00:54, MIKE DURKIN wrote:
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>
> -----Original Message-----
>
> From: Sid Boyce
> Sent: 16 Mar 2012 22:49:33 GMT
> To: UHFSDR@yahoogroups.com
> Subject: Re: [UHFSDR] Re: The Oscillating PA
>
> Hi Mike,
> How much? I can take 2 if you can spare them and Paypal you the money.
> 73 ... Sid.
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>> to go. Even have a few "A"grade Si570 extra to my needs.
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>> Mike KC7NOA
>>
>> -----Original Message-----
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>> From: Ed
>> Sent: 16 Mar 2012 11:30:40 GMT
>> To: UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
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>> Top grade Si570
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>> DURKIN <Patriot121@...> <mailto:Patriot121@...> wrote:
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>> > -----Original Message-----
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>> > Sent: 15 Mar 2012 23:35:03 GMT
>> > To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
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--
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Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

818. Re: [UHFSDR] Re: The Oscillating PA

Yahoo group: UHFSDR
Date: 2012-03-17 02:14:32 UTC
From: Sid Boyce
Topic: 810 Message: 818

My fault, I assumed lvpecl as that's what I have installed.
Pity.
73 ... Sid.

On 17/03/12 02:00, MIKE DURKIN wrote:
>
> Ok I found
>
> " . Si570 alone is $75.
>
> 73?EUR^(TM)s
>
> Alan ?EUR" W6ARH" message # 583 of the UHFSDR group ...
>
> So I guess 65$ isn't too bad ... im not sure what price difference is
> from lvelpcl to the lvds(what i have) is ... plus shipping ... im
> thinking in the middle of a letter with a hole cut in the middle for
> the pair to fit ... any idea what's the cheapest way to ship?
>
> -----Original Message-----
>
> From: Sid Boyce
> Sent: 17 Mar 2012 01:42:47 GMT
> To: UHFSDR@yahoogroups.com
> Subject: Re: [UHFSDR] Re: The Oscillating PA
>
> I have no idea what they sell for, but I'd like them for insurance as
> the 2 free samples I got from SiLabs failed as did one I got from
> G1CET. My guess is the free samples were ones that didn't pass testing.
>
> I have no SMD inductors spare. It was GM3SBC in this post.
> ----------
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> inductors, the PA was stable. The maximum frequency I checked the
> power output was 144 Mhz. The conclusion was the 470 ohm does not
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>
> Top grade Si570
> ----------

> 73 ... Sid.
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>>
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>> From: Sid Boyce
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>> To: UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
>> Subject: Re: [UHFSDR] Re: The Oscillating PA
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>> How much? I can take 2 if you can spare them and Paypal you the money.
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>>> To: UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
>>> Subject: [UHFSDR] Re: The Oscillating PA
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>>> with the two inductors, the PA was stable. The maximum frequency I
>>> checked the power output was 144 Mhz. The conclusion was the 470 ohm
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>>> Top grade Si570
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>>> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
>>> MIKE DURKIN <Patriot121@...> <mailto:Patriot121@...> wrote:
>>> >
>>> > Did you have the 3.3uH or 560nH ... seriesd them both? How high in
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819. Re: [UHFSDR] Re: The Oscillating PA

Yahoo group: UHFSDR
Date: 2012-03-17 05:51:28 UTC
From: Dave
Topic: 810 Message: 819

LVDS will work. Some components need to be changed(see schematic).
The biggest driver for price is the speed grade.

Dave - WB6DHW
<http://wb6dhw.com>

On 3/16/2012 7:14 PM, Sid Boyce wrote:
>
> My fault, I assumed lvpecl as that's what I have installed
> Pity.
> 73 ... Sid.
>
> On 17/03/12 02:00, MIKE DURKIN wrote:
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>> Ok I found
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>> " . Si570 alone is $75.
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>> Alan ?EUR" W6ARH" message # 583 of the UHFSDR group ...
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>> So I guess 65$ isn't too bad ... im not sure what price difference is
>> from lvelpcl to the lvds(what i have) is ... plus shipping ... im
>> thinking in the middle of a letter with a hole cut in the middle for
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>> -----Original Message-----
>>
>> From: Sid Boyce
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>> Subject: Re: [UHFSDR] Re: The Oscillating PA
>>
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>

820. RE: [UHFSDR] Re: The Oscillating PA

Yahoo group: UHFSDR
Date: 2012-03-17 17:11:51 UTC
From: The Silver Fox
Topic: 810 Message: 820

Sorry that I have to recoup my costs. On the up side they quoted me $93 for single quanities. I could go lower if I could buy twice what I can barely afford since they discount on bulk buy.

Then again, the best chips are over $100 even when bought in bulk.

73’s

Alan – W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of MIKE DURKIN
Sent: Friday, March 16, 2012 7:01 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: The Oscillating PA

Ok I found

" . Si570 alone is $75.

73’s

Alan – W6ARH" message # 583 of the UHFSDR group ...

So I guess 65$ isn't too bad ... im not sure what price difference is from lvelpcl to the lvds(what i have) is ... plus shipping ... im thinking in the middle of a letter with a hole cut in the middle for the pair to fit ... any idea what's the cheapest way to ship?

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Sent: 17 Mar 2012 01:42:47 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: The Oscillating PA

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Top grade Si570
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Mike KC7NOA

-----Original Message-----

From: Ed
Sent: 16 Mar 2012 11:30:40 GMT
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Re: The Oscillating PA

Hi Mike,
I had the original 3.3uH only to start with. It was oscillating in this configuration. The 470 ohm in parallel fixed the problem. I then removed the 470 ohm and placed a 100nH in series with the 3.3uH, it was oscillating. I then placed the 470 ohm in parallel with the two inductors, the PA was stable. The maximum frequency I checked the power output was 144 Mhz. The conclusion was the 470 ohm does not reduce the output level at that frequency.

Top grade Si570

--- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com> , MIKE DURKIN <mailto:Patriot121@...> <Patriot121@...> wrote:
>
> Did you have the 3.3uH or 560nH ... seriesd them both? How high in freq did you go ... have a "C" or "A"grade Si570?
>

> -----Original Message-----
>
> From: Ed
> Sent: 15 Mar 2012 23:35:03 GMT
> To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> Subject: [UHFSDR] The Oscillating PA
>
> Hi All,
>
> Since enclosing my UHFSDR in a box, as shown in the files section under GM3SBC, I started to observe the fact that I was getting RF power out while in the TX mode WITHOUT any TX drive. It turned out to be the TX mmic oscillating. The fix was to place a 470 ohm resistor in parallel with the inductor which is connected at the TX mmic output. This modification did not appear to cause any reduction in output power at several frequencies tested.
>
> Regards
> Ed GM3SBC
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

821. RE: [UHFSDR] Re: The Oscillating PA

Yahoo group: UHFSDR
Date: 2012-03-17 17:36:26 UTC
From: MIKE DURKIN
Topic: 810 Message: 821

I don't blame you ...
I figured 65$ isn't too high...
Think ill build the 3rd UHFSDR and put it remoted... that would leave 3 Si570's left over ....

-----Original Message-----

From: The Silver Fox
Sent: 17 Mar 2012 17:12:01 GMT
To: UHFSDR@yahoogroups.com
Subject: RE: [UHFSDR] Re: The Oscillating PA

Sorry that I have to recoup my costs. On the up side they quoted me $93 for single quanities. I could go lower if I could buy twice what I can barely afford since they discount on bulk buy.

Then again, the best chips are over $100 even when bought in bulk.

73’s

Alan – W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of MIKE DURKIN
Sent: Friday, March 16, 2012 7:01 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: The Oscillating PA

Ok I found

" . Si570 alone is $75.

73’s

Alan – W6ARH" message # 583 of the UHFSDR group ...

So I guess 65$ isn't too bad ... im not sure what price difference is from lvelpcl to the lvds(what i have) is ... plus shipping ... im thinking in the middle of a letter with a hole cut in the middle for the pair to fit ... any idea what's the cheapest way to ship?

-----Original Message-----

From: Sid Boyce
Sent: 17 Mar 2012 01:42:47 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: The Oscillating PA

I have no idea what they sell for, but I'd like them for insurance as the 2 free samples I got from SiLabs failed as did one I got from G1CET. My guess is the free samples were ones that didn't pass testing.

I have no SMD inductors spare. It was GM3SBC in this post.

Hi Mike,
I had the original 3.3uH only to start with. It was oscillating in this configuration. The 470 ohm in parallel fixed the problem. I then removed the 470 ohm and placed a 100nH in series with the 3.3uH, it was oscillating. I then placed the 470 ohm in parallel with the two inductors, the PA was stable. The maximum frequency I checked the power output was 144 Mhz. The conclusion was the 470 ohm does not reduce the output level at that frequency.

Top grade Si570
---
73 ... Sid.

On 17/03/12 00:54, MIKE DURKIN wrote:

Hey Sid .... iv got 4 .... iv had them listed on crags list and Qrz with no bites till now ... 3@BAA and one BBA

What do you think is fair ?... and ill ask if you have any nH SMD inductors ... iv talked with some one (and I can't remember right now who) that used a 100nH in series with the 3.3uH.... Part trade?

-----Original Message-----

From: Sid Boyce
Sent: 16 Mar 2012 22:49:33 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: The Oscillating PA

Hi Mike,
How much? I can take 2 if you can spare them and Paypal you the money.
73 ... Sid.

On 16/03/12 14:51, MIKE DURKIN wrote:

Ok ... good deal to hear. Ill copy the same parts values..... I need to get a few 100nH inductors ... I have 3 UHFSDR 's ... 2 built - one to go. Even have a few "A"grade Si570 extra to my needs.

Mike KC7NOA

-----Original Message-----

From: Ed
Sent: 16 Mar 2012 11:30:40 GMT
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Re: The Oscillating PA

Hi Mike,
I had the original 3.3uH only to start with. It was oscillating in this configuration. The 470 ohm in parallel fixed the problem. I then removed the 470 ohm and placed a 100nH in series with the 3.3uH, it was oscillating. I then placed the 470 ohm in parallel with the

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Top grade Si570

--- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com> , MIKE DURKIN <mailto:Patriot121@...> <Patriot121@...> wrote:
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> Regards
> Ed GM3SBC
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--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot,
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

822. FW: Mr Geoffrey Suggate sent you $194.00 USD

Yahoo group: UHFSDR
Date: 2012-03-17 18:20:56 UTC
From: The Silver Fox
Topic: 822 Message: 822

Any advice for Geoff? As far as I know, the black bar is only on resistors. SMT caps that I have seen have no black bars. I believe that USB speed is not important but faster is better.

73's

Alan - W6ARH

From: Geoff [mailto:g.suggate@...]
Sent: Saturday, March 17, 2012 10:35 AM
To: The Silver Fox
Subject: Re: Mr Geoffrey Suggate sent you $194.00 USD

Hello Alan,

Thank you kit received OK.

A couple of questions

1. I have got to UHFSDR Assembly Instruction No. 110. The 1uf caps do not have a black bar on them, so are you no longer using "tants" or have I got the wrong item?

2. I would like to use a USB interface. Is the HSUSB suitable for use with the UHFSDR ? If so does the PC require a "High Speed" USB2 instead of a standard USB2?

73 Geoff Suggate G3NPI Buckingham UK

----- Original Message -----

From: The Silver Fox <mailto:alan.r.hill@...>

To: g.suggate@...

Sent: Monday, March 05, 2012 10:46 PM

Subject: RE: Mr Geoffrey Suggate sent you $194.00 USD

I shipped your kit today. Thank you for your patience and enjoy the kit.

73's

Alan - W6ARH

From: sendmail@... [mailto:sendmail@...] On Behalf Of g.suggate@...
Sent: Wednesday, January 18, 2012 11:33 AM
To: Alan Hill

Subject: Mr Geoffrey Suggate sent you $194.00 USD

<https://www.paypal.com/us> PayPal

<http://images.paypal.com/en_US/i/scr/pixel.gif>

<http://images.paypal.com/en_US/i/scr/scr_emailTopCorners_580wx13h.gif>

<http://images.paypal.com/en_US/i/scr/pixel.gif>

Mr Geoffrey Suggate sent you $194.00 USD

Transaction ID: 5RK56430FH148843T
<https://www.paypal.com/us/cgi-bin/webscr?cmd=_view-a-trans&id=5RK56430FH148
843T>

Hello Alan Hill,

Just thought you'd like to know Mr Geoffrey Suggate sent you $194.00 USD.

Note from Mr Geoffrey Suggate:

Funds for UHFSDR full kit. Please ship to Geoff Suggate, 26 Highlands Rd,
Buckingham, Bucks MK18 1PL , UK when kits are available in Feb Many thanks
73 de G3NPI

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Get the details

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Don't see the money in your account?

Don't worry - sometimes it just takes a few minutes for it to show up.

Shipping address

Mr Geoffrey Suggate
26 Highlands Road
Buckingham, Buckinghamshire
MK18 1PL
United Kingdom

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<http://images.paypal.com/en_US/i/scr/scr_emailBottomCorners_580wx13h.gif>

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823. RE: [UHFSDR] FW: Mr Geoffrey Suggate sent you $194.00 USD

Yahoo group: UHFSDR
Date: 2012-03-17 18:51:57 UTC
From: MIKE DURKIN
Topic: 822 Message: 823

As far as USB ... I use QRP2000 to control Si570 and Tx/Rx ..

The caps - check the BOM ... then check where it came from... then use the part number to find a pdf description of that part.

-----Original Message-----

From: The Silver Fox
Sent: 17 Mar 2012 18:20:56 GMT
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] FW: Mr Geoffrey Suggate sent you $194.00 USD

Any advice for Geoff? As far as I know, the black bar is only on resistors. SMT caps that I have seen have no black bars. I believe that USB speed is not important but faster is better.

73's

Alan - W6ARH

From: Geoff [mailto:g.suggate@...]
Sent: Saturday, March 17, 2012 10:35 AM
To: The Silver Fox
Subject: Re: Mr Geoffrey Suggate sent you $194.00 USD

Hello Alan,

Thank you kit received OK.

A couple of questions

1. I have got to UHFSDR Assembly Instruction No. 110. The 1uf caps do not have a black bar on them, so are you no longer using "tants" or have I got the wrong item?

2. I would like to use a USB interface. Is the HSUSB suitable for use with the UHFSDR ? If so does the PC require a "High Speed" USB2 instead of a standard USB2?

73 Geoff Suggate G3NPI Buckingham UK

----- Original Message -----

From: The Silver Fox <mailto:alan.r.hill@...>

To: g.suggate@...

Sent: Monday, March 05, 2012 10:46 PM

Subject: RE: Mr Geoffrey Suggate sent you $194.00 USD

I shipped your kit today. Thank you for your patience and enjoy the kit.

73's

Alan - W6ARH

From: sendmail@... [mailto:sendmail@...] On Behalf Of
g.suggate@...
Sent: Wednesday, January 18, 2012 11:33 AM
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Subject: Mr Geoffrey Suggate sent you $194.00 USD

<https://www.paypal.com/us> PayPal

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Get the details

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PayPal Email ID PP1546

824. Re: [UHFSDR] FW: Mr Geoffrey Suggate sent you $194.00 USD

Yahoo group: UHFSDR
Date: 2012-03-17 20:00:47 UTC
From: Dave
Topic: 822 Message: 824

Geoff:
Actually, I believe the bar should be white(if the background is black). Only electrolytic caps have a bar. The ceramic caps used are non-polarized, so don't need a bar. The reason for the tantalums in those 2 locations is ceramic caps are microphonic and the audio amp has a lot of gain. When we had ceramics there, you could tap on the board and it sounded like you were playing a drum!
The HSUSB does work with the UHFSDR and Christos has support in PowerSDR-IQ. The HSUSB will work with either USB 1.2 or USB 2.0. The I2C spec is 400 KHz max and this is well within the USB 1.1 capability.

Dave - WB6DHW
<http://wb6dhw.com>

On 3/17/2012 11:20 AM, The Silver Fox wrote:
>
> Any advice for Geoff? As far as I know, the black bar is only on
> resistors. SMT caps that I have seen have no black bars. I believe
> that USB speed is not important but faster is better.
>
> 73's
>
> Alan -- W6ARH
>
> *From:*Geoff [mailto:g.suggate@...]
> *Sent:* Saturday, March 17, 2012 10:35 AM
> *To:* The Silver Fox
> *Subject:* Re: Mr Geoffrey Suggate sent you $194.00 USD
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> Hello Alan,
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> Thank you kit received OK.
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> 73 Geoff Suggate G3NPI Buckingham UK
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> *To:*g.suggate@... <mailto:g.suggate@...>
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> *Sent:*Monday, March 05, 2012 10:46 PM
>
> *Subject:*RE: Mr Geoffrey Suggate sent you $194.00 USD
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> I shipped your kit today. Thank you for your patience and enjoy
> the kit.
>
> 73's
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> Alan -- W6ARH
>
> *From:*sendmail@... <mailto:sendmail@...>
> [mailto:sendmail@...] *On Behalf Of
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> *Sent:* Wednesday, January 18, 2012 11:33 AM
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> *Subject:* Mr Geoffrey Suggate sent you $194.00 USD
>
> PayPal <https://www.paypal.com/us>
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> H <https://www.paypal.com/us/cgi-bin/helpweb?cmd=_help>
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>

825. Dave's BPF Build - Have some questions

Yahoo group: UHFSDR
Date: 2012-03-19 00:24:33 UTC
From: Hank
Topic: 825 Message: 825

Dave,

Finally got around to finishing my BPF board.

I have 4 questions regarding the board I have. (originally I had 2 but then when I started to write this message I came up with questions 3 and 4, sorry!).

1. The version I have (BPF_R1) looks like it has an extra cap location on the back C60 (hard to read slik screen) below R2. Should this be installed and if so, what value for the cap?

2. Now that I have the board fully populated except for the headers. Is there any documentation on connecting this into the UHFSDR.
From schematic,

H1 Binary selection of band pins 1-3 ground pin 4.
H2 power (+5V) should be supplied on Pin 1 of H2, ground to Pin 2 H2.

I am not sure what H3-H8 do. Probably RF IN/OUT on H5/H6 but then I am not sure of purpose of H3/H4 and H7/H8. Can you elaborate on these pin assignments.

3. How do I switch the bpf board in for receive and out for transmit. Do I do this with an external relay or does the board handle this itself.

4. I have a SMC connector on my UHFSDR soldered to the board. I was thinking of putting a pigtail on the BPF board with a SMC male which I could connect to the UHFSDR board. Then a second pigtail for chaining to MPLPF or out to antenna. Do you think that would work using some RG174?

Sorry again for all the questions. For a SMD populated board it was really easy to build. Thanks for the nice layout!

Hank
WZ3HMT

826. Re: [UHFSDR] Dave's BPF Build - Have some questions

Yahoo group: UHFSDR
Date: 2012-03-19 02:24:12 UTC
From: Dave
Topic: 825 Message: 826

Hank:
C60 is a .1uF capacitor.
The switching logic can select one of 8 filters. There are only 6 filters on the board. Two additional filters can be connected between H8 and H3 and H7 and H4. H5 and H6 are RF in and RF out.
You would have to use an external relay to switch the BPF in and out. One other way is the set up the UHFSDR for separate transmit and receive inputs. The put the BPF in the receive path and us a relay to switch the antenna.
I have not published instructions for connecting to the UHFSDR(it was originally designed for another project).
Assuming your cable length is not more than a few feet, RG-174 will be OK.

Dave - WB6DHW
<http://wb6dhw.com>

On 3/18/2012 5:24 PM, Hank wrote:
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> not sure of purpose of H3/H4 and H7/H8. Can you elaborate on these pin
> assignments.
>
>
> 3. How do I switch the bpf board in for receive and out for transmit.
> Do I do this with an external relay or does the board handle this itself.

>
>
> 4. I have a SMC connector on my UHFSDR soldered to the board. I was
> thinking of putting a pigtail on the BPF board with a SMC male which I
> could connect to the UHFSDR board. Then a second pigtail for chaining
> to MPLPF or out to antenna. Do you think that would work using some RG174?
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> Sorry again for all the questions. For a SMD populated board it was
> really easy to build. Thanks for the nice layout!
>
> Hank
> WZ3HMT
>
>
> ~-|**|PrettyHtmlEnd|**|-~ end group email -->
>

827. Re: Dave's BPF Build - Have some questions

Yahoo group: UHFSDR
Date: 2012-03-19 18:48:30 UTC
From: Hank
Topic: 825 Message: 827

Dave,

Thanks much. Just curious if it would be OK to use an AS169 on an external daughter board to do the switching between the BPF for receive and the MPLPF for transmit similar to U2/U7 in the T/R RF Switching. I know I would use only 1 and tie it into something like the 74AC00 on pins 3/6 via an optocoupler as not to put a load on the UHFSDR signal lines. Maybe a better place would be the T/R singnal on pin 1 of P2. Would that type of arrangement work?

Hank

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> Hank:
> C60 is a .1uF capacitor.
> The switching logic can select one of 8 filters. There are only 6
> filters on the board. Two additional filters can be connected between
> H8 and H3 and H7 and H4. H5 and H6 are RF in and RF out.
> You would have to use an external relay to switch the BPF in and
> out. One other way is the set up the UHFSDR for separate transmit and
> receive inputs. The put the BPF in the receive path and us a relay to
> switch the antenna.
> I have not published instructions for connecting to the UHFSDR(it was
> originally designed for another project).
> Assuming your cable length is not more than a few feet, RG-174 will
> be OK.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 3/18/2012 5:24 PM, Hank wrote:
> >
> > Dave,
> >
> > Finally got around to finishing my BPF board.
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> > I have 4 questions regarding the board I have. (originally I had 2 but
> > then when I started to write this message I came up with questions 3
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> > >From schematic,
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> > H1 Binary selection of band pins 1-3 ground pin 4.
> > H2 power (+5V) should be supplied on Pin 1 of H2, ground to Pin 2 H2.
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> > I am not sure what H3-H8 do. Probably RF IN/OUT on H5/H6 but then I am
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> > assignments.
> >
> >
> > 3. How do I switch the bpf board in for receive and out for transmit.
> > Do I do this with an external relay or does the board handle this itself.
> >
> >
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> > could connect to the UHFSDR board. Then a second pigtail for chaining
> > to MPLPF or out to antenna. Do you think that would work using some RG174?
> >
> > Sorry again for all the questions. For a SMD populated board it was
> > really easy to build. Thanks for the nice layout!
> >
> > Hank
> > WZ3HMT
> >
> >
> > ~-|**|PrettyHtmlEnd|**|-~ end group email -->
> >
>

828. Re: [UHFSDR] Re: Dave's BPF Build - Have some questions

Yahoo group: UHFSDR
Date: 2012-03-19 20:45:35 UTC
From: Dave
Topic: 825 Message: 828

Hank:
Yes, that should be OK.

Dave - WB6DHW
<http://wb6dhw.com>

On 3/19/2012 11:48 AM, Hank wrote:
>
> Dave,
>
> Thanks much. Just curious if it would be OK to use an AS169 on an
> external daughter board to do the switching between the BPF for
> receive and the MPLPF for transmit similar to U2/U7 in the T/R RF
> Switching. I know I would use only 1 and tie it into something like
> the 74AC00 on pins 3/6 via an optocoupler as not to put a load on the
> UHFSDR signal lines. Maybe a better place would be the T/R singnal on
> pin 1 of P2. Would that type of arrangement work?
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> Hank
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> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Dave
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829. Re: Dave's BPF Build - Have some questions

Yahoo group: UHFSDR
Date: 2012-03-20 00:50:01 UTC
From: Hank
Topic: 825 Message: 829

Dave,

Thank you for the help and guidance. Will tell you how it goes over the next couple of weeks. Happy to hear of the availablity of using 2 additional external filters. Would like to try to bring on 2m and 70cm bands.

Hank

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
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> Hank:
> Yes, that should be OK.
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830. RE: [UHFSDR] Re: Dave's BPF Build - Have some questions

Yahoo group: UHFSDR
Date: 2012-03-20 05:38:19 UTC
From: MIKE DURKIN
Topic: 825 Message: 830

Now Iv got a question .. do you really need T1 or can a choke from pin 4 to 6 and a DC blocking cap for hte input to pin6? I take it if your going to try to use 144Mhz and 470Mhs it probably be better to get a ADT1-1 ..... but for HF ....??I do have a TC1-1-13m+ .. but its not rated below 4.5Mhz ... any one sweep it lower ?? Mike KC7NOATo: UHFSDR@yahoogroups.com
From: dave@...
Date: Mon, 19 Mar 2012 13:45:35 -0700
Subject: Re: [UHFSDR] Re: Dave's BPF Build - Have some questions

Hank:

Yes, that should be OK.

Dave - WB6DHW

<http://wb6dhw.com>

On 3/19/2012 11:48 AM, Hank wrote:

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831. Re: [UHFSDR] Re: Dave's BPF Build - Have some questions

Yahoo group: UHFSDR
Date: 2012-03-20 07:04:43 UTC
From: Dave
Topic: 825 Message: 831

Mike:
I can't figure out what pin 4 and pin 6 your talking about. T1 is used as a power splitter/combiner for the input/output of the two mixers. Do you mean T2? It is only needed if you are using an external osc in place of the Si570 or need another output from the Si570.

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On 3/19/2012 10:38 PM, MIKE DURKIN wrote:
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> Mike KC7NOA
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> To: UHFSDR@yahoogroups.com
> From: dave@...
> Date: Mon, 19 Mar 2012 13:45:35 -0700
> Subject: Re: [UHFSDR] Re: Dave's BPF Build - Have some questions
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832. Re: [UHFSDR] Re: Dave's BPF Build - Have some questions

Yahoo group: UHFSDR
Date: 2012-03-20 10:53:33 UTC
From: MIKE DURKIN
Topic: 825 Message: 832

T1 of the BPF ....

-----Original Message-----

From: Dave
Sent: 20 Mar 2012 07:04:51 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: Dave's BPF Build - Have some questions

Mike:
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> From: dave@...
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833. Re: [UHFSDR] Re: Dave's BPF Build - Have some questions

Yahoo group: UHFSDR
Date: 2012-03-20 17:53:11 UTC
From: Dave
Topic: 825 Message: 833

Mike:
Duh, the subject was BPF build. I would think the choke and blocking
cap would work. The FST3251 switches do need to be biased at +2.5V
through the choke.

Dave - WB6DHW
<http://wb6dhw.com>

On 3/20/2012 3:53 AM, MIKE DURKIN wrote:
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>> > > 1. The version I have (BPF_R1) looks like it has an extra cap
>> location
>> > > on the back C60 (hard to read slik screen) below R2. Should
>> this be
>> > > installed and if so, what value for the cap?
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>> > > 2. Now that I have the board fully populated except for the
>> headers.
>> > > Is there any documentation on connecting this into the UHFSDR.
>> > > >From schematic,
>> > >
>> > > H1 Binary selection of band pins 1-3 ground pin 4.
>> > > H2 power (+5V) should be supplied on Pin 1 of H2, ground to
>> Pin 2 H2.
>> > >
>> > > I am not sure what H3-H8 do. Probably RF IN/OUT on H5/H6 but
>> then I am
>> > > not sure of purpose of H3/H4 and H7/H8. Can you elaborate on
>> these pin
>> > > assignments.
>> > >
>> > >
>> > > 3. How do I switch the bpf board in for receive and out for
>> transmit.
>> > > Do I do this with an external relay or does the board handle
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>> > >
>> > > 4. I have a SMC connector on my UHFSDR soldered to the board.
>> I was
>> > > thinking of putting a pigtail on the BPF board with a SMC
>> male which I
>> > > could connect to the UHFSDR board. Then a second pigtail for
>> chaining
>> > > to MPLPF or out to antenna. Do you think that would work
>> using some RG174?
>> > >
>> > > Sorry again for all the questions. For a SMD populated board
>> it was
>> > > really easy to build. Thanks for the nice layout!
>> > >
>> > > Hank
>> > > WZ3HMT
>> > >

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>> > > ~-|**|PrettyHtmlEnd|**|-~ end group email -->
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834. UHFSDR build started

Yahoo group: UHFSDR
Date: 2012-03-20 22:20:00 UTC
From: David Turnbull
Topic: 834 Message: 834

Hello,

I've just started my UHFSDR build. I want to lay out my basic plan for critique in case I don't understand something. I have Alan's parts kit, a QRP2000 (sans Si570), and a MPLPF. I may tinker with VHF/UHF but this will be an HF rig.

The QRP2000 is temporary until I get a SoC linux board with I2S. It looks like I just need an opto-isolator for PTT and this should completely control the UHFSDR. I'm not sure the pe0fko firmware on the QRP2000 can control the MPLFP though. Has anyone played with the [DO NOT USE] commands and hacked this working? I'm fine with using MPLFP jumpers until I get a SoC board.

This passive I/Q mixer came as a bit of a surprise. I also like that the Si570 has isolation on the I2C side instead of destroying the output square wave in a transformer. I don't know much about the theory of operation except what I can absorb from the schematics. Am I correct in believing that the UHFSDR requires only a LPF in exactly the same was as an active QSD/QDE? This is to prevent signals on the 2nd LO harmonic from mixing in both Rx and Tx?

If I'm understanding everything, then the only thing I still want is a 5W amp. Any suggestions? It'd be great to get a full 5W on 6M too. Has anyone used this: http://www.hfprojectsyahoo.com/sla5wamp.html

73 David AE9RB

835. RE: [UHFSDR] UHFSDR build started

Yahoo group: UHFSDR
Date: 2012-03-20 22:43:41 UTC
From: MIKE DURKIN
Topic: 834 Message: 835

Don't need an isolator ... im using a QRP2000 and it fully Tx ... iv not noticed any issues ...

-----Original Message-----

From: David Turnbull
Sent: 20 Mar 2012 22:20:05 GMT
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] UHFSDR build started

Hello,

I've just started my UHFSDR build. I want to lay out my basic plan for critique in case I don't understand something. I have Alan's parts kit, a QRP2000 (sans Si570), and a MPLPF. I may tinker with VHF/UHF but this will be an HF rig.

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This passive I/Q mixer came as a bit of a surprise. I also like that the Si570 has isolation on the I2C side instead of destroying the output square wave in a transformer. I don't know much about the theory of operation except what I can absorb from the schematics. Am I correct in believing that the UHFSDR requires only a LPF in exactly the same was as an active QSD/QDE? This is to prevent signals on the 2nd LO harmonic from mixing in both Rx and Tx?

If I'm understanding everything, then the only thing I still want is a 5W amp. Any suggestions? It'd be great to get a full 5W on 6M too. Has anyone used this: http://www.hfprojectsyahoo.com/sla5wamp.html

73 David AE9RB

836. Re: [UHFSDR] UHFSDR build started

Yahoo group: UHFSDR
Date: 2012-03-20 23:36:37 UTC
From: Dave
Topic: 834 Message: 836

David:
The LPF is required on the output to attenuate the
harmonics(primarily odd). If you are in a strong signal area, a BPF on
the receiver input may be needed to reject signals at 1/3,1/5th. etc. freq.
The UHFSDR operates the same as other frequency converting SDR's such
as the Softrocks.
On my 350 MHz oscilloscope, the Si570 output at 2 meters is a
textbook squarewave.

Dave - WB6DHW
<http://wb6dhw.com>

On 3/20/2012 3:20 PM, David Turnbull wrote:
>
> Hello,
>
> I've just started my UHFSDR build. I want to lay out my basic plan
> for critique in case I don't understand something. I have Alan's
> parts kit, a QRP2000 (sans Si570), and a MPLPF. I may tinker with
> VHF/UHF but this will be an HF rig.
>
> The QRP2000 is temporary until I get a SoC linux board with I2S. It
> looks like I just need an opto-isolator for PTT and this should
> completely control the UHFSDR. I'm not sure the pe0fko firmware on
> the QRP2000 can control the MPLFP though. Has anyone played with the
> [DO NOT USE] commands and hacked this working? I'm fine with using
> MPLFP jumpers until I get a SoC board.
>
> This passive I/Q mixer came as a bit of a surprise. I also like that
> the Si570 has isolation on the I2C side instead of destroying the
> output square wave in a transformer. I don't know much about the
> theory of operation except what I can absorb from the schematics. Am
> I correct in believing that the UHFSDR requires only a LPF in exactly
> the same was as an active QSD/QDE? This is to prevent signals on the
> 2nd LO harmonic from mixing in both Rx and Tx?
>
> If I'm understanding everything, then the only thing I still want is a
> 5W amp. Any suggestions? It'd be great to get a full 5W on 6M too.
> Has anyone used this: http://www.hfprojectsyahoo.com/sla5wamp.html
>
> 73 David AE9RB
>
>

837. Re: [UHFSDR] UHFSDR build started

Yahoo group: UHFSDR
Date: 2012-03-21 00:33:39 UTC
From: w9amr@aol.com
Topic: 834 Message: 837

The QRP2000 doesn't have enough pins to control the LPF.

Larry W9AMR

In a message dated 3/20/2012 6:20:06 P.M. Eastern Daylight Time, dturnbull@... writes:

Hello,

I've just started my UHFSDR build. I want to lay out my basic plan for critique in case I don't understand something. I have Alan's parts kit, a QRP2000 (sans Si570), and a MPLPF. I may tinker with VHF/UHF but this will be an HF rig.

The QRP2000 is temporary until I get a SoC linux board with I2S. It looks like I just need an opto-isolator for PTT and this should completely control the UHFSDR. I'm not sure the pe0fko firmware on the QRP2000 can control the MPLFP though. Has anyone played with the [DO NOT USE] commands and hacked this working? I'm fine with using MPLFP jumpers until I get a SoC board.

This passive I/Q mixer came as a bit of a surprise. I also like that the Si570 has isolation on the I2C side instead of destroying the output square wave in a transformer. I don't know much about the theory of operation except what I can absorb from the schematics. Am I correct in believing that the UHFSDR requires only a LPF in exactly the same was as an active QSD/QDE? This is to prevent signals on the 2nd LO harmonic from mixing in both Rx and Tx?

If I'm understanding everything, then the only thing I still want is a 5W amp. Any suggestions? It'd be great to get a full 5W on 6M too. Has anyone used this: _http://www.hfprojectsyahoo.com/sla5wamp.html_ (http://www.hfprojectsyahoo.com/sla5wamp.html)

73 David AE9RB

838. Re: [UHFSDR] Re: Dave's BPF Build - Have some questions

Yahoo group: UHFSDR
Date: 2012-03-21 01:50:04 UTC
From: MIKE DURKIN
Topic: 825 Message: 838

Different question....

What's the consensus regarding cheapest toroids for the band pass filter?

-----Original Message-----

From: Dave
Sent: 20 Mar 2012 17:54:48 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: Dave's BPF Build - Have some questions

Mike:
Duh, the subject was BPF build. I would think the choke and blocking
cap would work. The FST3251 switches do need to be biased at +2.5V
through the choke.

Dave - WB6DHW
<http://wb6dhw.com>

On 3/20/2012 3:53 AM, MIKE DURKIN wrote:
>
> T1 of the BPF ....
>
> -----Original Message-----
>
> From: Dave
> Sent: 20 Mar 2012 07:04:51 GMT
> To: UHFSDR@yahoogroups.com
> Subject: Re: [UHFSDR] Re: Dave's BPF Build - Have some questions
>
> Mike:
> I can't figure out what pin 4 and pin 6 your talking about. T1 is
> used as a power splitter/combiner for the input/output of the two
> mixers. Do you mean T2? It is only needed if you are using an
> external osc in place of the Si570 or need another output from the Si570.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 3/19/2012 10:38 PM, MIKE DURKIN wrote:
>
>> Now Iv got a question .. do you really need T1 or can a choke from
>> pin 4 to 6 and a DC blocking cap for hte input to pin6?
>> I take it if your going to try to use 144Mhz and 470Mhs it probably
>> be better to get a ADT1-1 ..... but for HF ....??
>> I do have a TC1-1-13m+ .. but its not rated below 4.5Mhz ... any one

>> sweep it lower ??
>>
>> Mike KC7NOA
>> ----------
>> To: UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
>> From: dave@... <mailto:dave@...>
>> Date: Mon, 19 Mar 2012 13:45:35 -0700
>> Subject: Re: [UHFSDR] Re: Dave's BPF Build - Have some questions
>>
>> Hank:
>> Yes, that should be OK.
>>
>> Dave - WB6DHW
>> <http://wb6dhw.com>
>>
>> On 3/19/2012 11:48 AM, Hank wrote:
>>
>> Dave,
>>
>> Thanks much. Just curious if it would be OK to use an AS169 on an
>> external daughter board to do the switching between the BPF for
>> receive and the MPLPF for transmit similar to U2/U7 in the T/R RF
>> Switching. I know I would use only 1 and tie it into something
>> like the 74AC00 on pins 3/6 via an optocoupler as not to put a
>> load on the UHFSDR signal lines. Maybe a better place would be
>> the T/R singnal on pin 1 of P2. Would that type of arrangement work?
>>
>> Hank
>>
>> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
>> Dave <dave@...> <mailto:dave@...> wrote:
>> >
>> > Hank:
>> > C60 is a .1uF capacitor.
>> > The switching logic can select one of 8 filters. There are only 6
>> > filters on the board. Two additional filters can be connected
>> between
>> > H8 and H3 and H7 and H4. H5 and H6 are RF in and RF out.
>> > You would have to use an external relay to switch the BPF in and
>> > out. One other way is the set up the UHFSDR for separate
>> transmit and
>> > receive inputs. The put the BPF in the receive path and us a
>> relay to
>> > switch the antenna.
>> > I have not published instructions for connecting to the
>> UHFSDR(it was
>> > originally designed for another project).
>> > Assuming your cable length is not more than a few feet, RG-174
>> will
>> > be OK.

>> >
>> > Dave - WB6DHW
>> > <http://wb6dhw.com>
>> >
>> > On 3/18/2012 5:24 PM, Hank wrote:
>> > >
>> > > Dave,
>> > >
>> > > Finally got around to finishing my BPF board.
>> > >
>> > > I have 4 questions regarding the board I have. (originally I
>> had 2 but
>> > > then when I started to write this message I came up with
>> questions 3
>> > > and 4, sorry!).
>> > >
>> > > 1. The version I have (BPF_R1) looks like it has an extra cap
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>> > > on the back C60 (hard to read slik screen) below R2. Should
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>> > > H1 Binary selection of band pins 1-3 ground pin 4.
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>> Pin 2 H2.
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>> I was
>> > > thinking of putting a pigtail on the BPF board with a SMC
>> male which I
>> > > could connect to the UHFSDR board. Then a second pigtail for
>> chaining

>> > > to MPLPF or out to antenna. Do you think that would work
>> using some RG174?
>> > >
>> > > Sorry again for all the questions. For a SMD populated board
>> it was
>> > > really easy to build. Thanks for the nice layout!
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>> > > Hank
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839. Schematic Drawing Software

Yahoo group: UHFSDR
Date: 2012-03-21 16:55:11 UTC
From: Hank
Topic: 839 Message: 839

Dave,

If you do not mind answering, what did you use to layout your schematics? I am using Eagle Cad free version but can not find a HMC544 component nor what seems to be an alternative. Trying to layout a daughter board for the BPF/MPLPF switching using the HMC544 or AS169 but can't find either component availble in Eagle libraries. I can substitue something else but was just currious what you used. Sorry if you answered this previously as I could not find any posts on this.

Thank you,

Hank

840. Re: [UHFSDR] Schematic Drawing Software

Yahoo group: UHFSDR
Date: 2012-03-21 17:50:14 UTC
From: Keenan Tims
Topic: 839 Message: 840

The design was done in KiCad, which is free and open source. You can get it from http://kicad.sourceforge.net . Library completeness is not really a strong suit though, so I doubt you'll find one out in the open. It's pretty easy to make one yourself though, and maybe Dave will be kind enough to post it somewhere (or already has...).

Keenan VE7XEN

On 21 March 2012 09:55, Hank <hank@...> wrote:

> **
>
>
> Dave,
>
> If you do not mind answering, what did you use to layout your schematics?
> I am using Eagle Cad free version but can not find a HMC544 component nor
> what seems to be an alternative. Trying to layout a daughter board for the
> BPF/MPLPF switching using the HMC544 or AS169 but can't find either
> component availble in Eagle libraries. I can substitue something else but
> was just currious what you used. Sorry if you answered this previously as I
> could not find any posts on this.
>
> Thank you,
>
> Hank
>
>
>

841. Re: [UHFSDR] Schematic Drawing Software

Yahoo group: UHFSDR
Date: 2012-03-21 19:57:56 UTC
From: Dave
Topic: 839 Message: 841

Hank:
I used Kicad. It is free, open source, and works on Windows, Linux, and OSX. I always have to add components to the library for each project.

Dave - WB6DHW
<http://wb6dhw.com>

On 3/21/2012 9:55 AM, Hank wrote:
>
> Dave,
>
> If you do not mind answering, what did you use to layout your
> schematics? I am using Eagle Cad free version but can not find a
> HMC544 component nor what seems to be an alternative. Trying to layout
> a daughter board for the BPF/MPLPF switching using the HMC544 or AS169
> but can't find either component availble in Eagle libraries. I can
> substitue something else but was just currious what you used. Sorry if
> you answered this previously as I could not find any posts on this.
>
> Thank you,
>
> Hank
>
>

842. Re: Schematic Drawing Software

Yahoo group: UHFSDR
Date: 2012-03-21 20:22:22 UTC
From: Hank
Topic: 839 Message: 842

Dave,

Thanks. That is what I thought as that component does not appear in Eagle libraries either. I picked another component with same foot print and just renamed it to AS169 but obviously makes the functionality of the schematic all wrong. I really just need the layout so I can etch some pcb's to play with. Thanks for quick reply.

Hank

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> Hank:
> I used Kicad. It is free, open source, and works on Windows, Linux,
> and OSX. I always have to add components to the library for each project.
>
> Dave - WB6DHW
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>
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> >
> > Dave,
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> >
> > Hank
> >
> >
>

843. Re: Dave's BPF Build - Have some questions

Yahoo group: UHFSDR
Date: 2012-03-22 01:54:37 UTC
From: Hank
Topic: 825 Message: 843

Dave,

Sorry, at least one more question. On using seperate antenna paths and switching the antenna which I like the idea, reduces number of components compared to switching in/out the entire bpf/mplpf, probably less loss as well.

I see that H4 can be tied to ground to use seperate transmit/receive antenna but the only antenna in/out on the board I see is J4. What am I missing that is right in front of my face.

Hank

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> Hank:
> C60 is a .1uF capacitor.
> The switching logic can select one of 8 filters. There are only 6
> filters on the board. Two additional filters can be connected between
> H8 and H3 and H7 and H4. H5 and H6 are RF in and RF out.
> You would have to use an external relay to switch the BPF in and
> out. One other way is the set up the UHFSDR for separate transmit and
> receive inputs. The put the BPF in the receive path and us a relay to
> switch the antenna.
> I have not published instructions for connecting to the UHFSDR(it was
> originally designed for another project).
> Assuming your cable length is not more than a few feet, RG-174 will
> be OK.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 3/18/2012 5:24 PM, Hank wrote:
> >
> > Dave,
> >
> > Finally got around to finishing my BPF board.
> >
> > I have 4 questions regarding the board I have. (originally I had 2 but
> > then when I started to write this message I came up with questions 3
> > and 4, sorry!).
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> > 1. The version I have (BPF_R1) looks like it has an extra cap location
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> >
> > 2. Now that I have the board fully populated except for the headers.

> > Is there any documentation on connecting this into the UHFSDR.
> > >From schematic,
> >
> > H1 Binary selection of band pins 1-3 ground pin 4.
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> > I am not sure what H3-H8 do. Probably RF IN/OUT on H5/H6 but then I am
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> > assignments.
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> >
> > 3. How do I switch the bpf board in for receive and out for transmit.
> > Do I do this with an external relay or does the board handle this itself.
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> > 4. I have a SMC connector on my UHFSDR soldered to the board. I was
> > thinking of putting a pigtail on the BPF board with a SMC male which I
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> > to MPLPF or out to antenna. Do you think that would work using some RG174?
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> > Sorry again for all the questions. For a SMD populated board it was
> > really easy to build. Thanks for the nice layout!
> >
> > Hank
> > WZ3HMT
> >
> >
> > ~-|**|PrettyHtmlEnd|**|-~ end group email -->
> >
>

844. Re: [UHFSDR] Re: Dave's BPF Build - Have some questions

Yahoo group: UHFSDR
Date: 2012-03-22 02:15:36 UTC
From: Dave
Topic: 825 Message: 844

Hank:
TP4 is receive antenna, TP5 is transmit antenna.

Dave - WB6DHW
<http://wb6dhw.com>

On 3/21/2012 6:54 PM, Hank wrote:
>
> Dave,
>
> Sorry, at least one more question. On using seperate antenna paths and
> switching the antenna which I like the idea, reduces number of
> components compared to switching in/out the entire bpf/mplpf, probably
> less loss as well.
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> I see that H4 can be tied to ground to use seperate transmit/receive
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> Hank
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> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Dave
> <dave@...> wrote:
> >
> > Hank:
> > C60 is a .1uF capacitor.
> > The switching logic can select one of 8 filters. There are only 6
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> > Dave - WB6DHW
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> > >
> > > ~-|**|PrettyHtmlEnd|**|-~ end group email -->
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>

845. Re: Dave's BPF Build - Have some questions

Yahoo group: UHFSDR
Date: 2012-03-22 09:03:46 UTC
From: tony_g3ovh
Topic: 825 Message: 845

Hi Hank

I am using TP5 as a separate Tx o/p but a word of caution - there is then no capacitor from there to U7 - AS169 (HMC544), with the result that a DC voltage of c. 1V is fed out at a fairly high impedance - it drops to some 10's of mV with a 50ohm load. That fooled me at first when I was trying to measure the o/p Tx level with a DC coupled resistive bridge SWR meter. On a related subject, when I was building the UHFSDR there were two problems on the section on T/R RF Switching - one as mentioned before is the reverse logic of the AS169, and therefore, lines 204 and 212 which for the AS169 are "continuity" rather then "no continuity" in my case the continuity was "buzzing" on the meter - not sure if I had some 50Hz getting in. I ignored it and the Tx is OK.

Tony

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> Hank:
> TP4 is receive antenna, TP5 is transmit antenna.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 3/21/2012 6:54 PM, Hank wrote:
> >
> > Dave,
> >
> > Sorry, at least one more question. On using seperate antenna paths and
> > switching the antenna which I like the idea, reduces number of
> > components compared to switching in/out the entire bpf/mplpf, probably
> > less loss as well.
> >
> > I see that H4 can be tied to ground to use seperate transmit/receive
> > antenna but the only antenna in/out on the board I see is J4. What am
> > I missing that is right in front of my face.
> >
> > Hank
> >

846. Re: Dave's BPF Build - Have some questions

Yahoo group: UHFSDR
Date: 2012-03-22 12:02:25 UTC
From: Hank
Topic: 825 Message: 846

Dave,

Thanks. Over looked the obvious. I though TP4/TP5 were just test points.....Of course I could pull the Rx/Tx out of those.... Oh do I feel silly.

Hank

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> Hank:
> TP4 is receive antenna, TP5 is transmit antenna.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 3/21/2012 6:54 PM, Hank wrote:
> >
> > Dave,
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> > Sorry, at least one more question. On using seperate antenna paths and
> > switching the antenna which I like the idea, reduces number of
> > components compared to switching in/out the entire bpf/mplpf, probably
> > less loss as well.
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> > I see that H4 can be tied to ground to use seperate transmit/receive
> > antenna but the only antenna in/out on the board I see is J4. What am
> > I missing that is right in front of my face.
> >
> > Hank
> >
> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Dave
> > <dave@> wrote:
> > >
> > > Hank:
> > > C60 is a .1uF capacitor.
> > > The switching logic can select one of 8 filters. There are only 6
> > > filters on the board. Two additional filters can be connected between
> > > H8 and H3 and H7 and H4. H5 and H6 are RF in and RF out.
> > > You would have to use an external relay to switch the BPF in and
> > > out. One other way is the set up the UHFSDR for separate transmit and
> > > receive inputs. The put the BPF in the receive path and us a relay to
> > > switch the antenna.
> > > I have not published instructions for connecting to the UHFSDR(it was
> > > originally designed for another project).
> > > Assuming your cable length is not more than a few feet, RG-174 will
> > > be OK.

> > >
> > > Dave - WB6DHW
> > > <http://wb6dhw.com>
> > >
> > > On 3/18/2012 5:24 PM, Hank wrote:
> > > >
> > > > Dave,
> > > >
> > > > Finally got around to finishing my BPF board.
> > > >
> > > > I have 4 questions regarding the board I have. (originally I had 2
> > but
> > > > then when I started to write this message I came up with questions 3
> > > > and 4, sorry!).
> > > >
> > > > 1. The version I have (BPF_R1) looks like it has an extra cap
> > location
> > > > on the back C60 (hard to read slik screen) below R2. Should this be
> > > > installed and if so, what value for the cap?
> > > >
> > > > 2. Now that I have the board fully populated except for the headers.
> > > > Is there any documentation on connecting this into the UHFSDR.
> > > > >From schematic,
> > > >
> > > > H1 Binary selection of band pins 1-3 ground pin 4.
> > > > H2 power (+5V) should be supplied on Pin 1 of H2, ground to Pin 2 H2.
> > > >
> > > > I am not sure what H3-H8 do. Probably RF IN/OUT on H5/H6 but then
> > I am
> > > > not sure of purpose of H3/H4 and H7/H8. Can you elaborate on these
> > pin
> > > > assignments.
> > > >
> > > >
> > > > 3. How do I switch the bpf board in for receive and out for transmit.
> > > > Do I do this with an external relay or does the board handle this
> > itself.
> > > >
> > > >
> > > > 4. I have a SMC connector on my UHFSDR soldered to the board. I was
> > > > thinking of putting a pigtail on the BPF board with a SMC male
> > which I
> > > > could connect to the UHFSDR board. Then a second pigtail for chaining
> > > > to MPLPF or out to antenna. Do you think that would work using
> > some RG174?
> > > >
> > > > Sorry again for all the questions. For a SMD populated board it was
> > > > really easy to build. Thanks for the nice layout!
> > > >
> > > > Hank

> > > > WZ3HMT
> > > >
> > > >
> > > > ~-|**|PrettyHtmlEnd|**|-~ end group email -->
> > > >
> > >
> >
> >
> >
>

847. Re: Dave's BPF Build - Have some questions

Yahoo group: UHFSDR
Date: 2012-03-23 11:19:13 UTC
From: Hank
Topic: 825 Message: 847

Tony,

Thank you and i appreciate all info. I am going to try to use tp4/tp5 into short (<6") lengths of rg174 with couplers so that I can easily insert/remove both BPF and mplpf components hopefully making it a little easier to play with. I hope it dosent introduce too much loss. Was thinking to tie in rg174 shield to back of board like I did for p3/p4 jumper.

Hank

--- In UHFSDR@yahoogroups.com, "tony_g3ovh" <tony@...> wrote:
>
> Hi Hank
>
> I am using TP5 as a separate Tx o/p but a word of caution - there is then no capacitor from there to U7 - AS169 (HMC544), with the result that a DC voltage of c. 1V is fed out at a fairly high impedance - it drops to some 10's of mV with a 50ohm load. That fooled me at first when I was trying to measure the o/p Tx level with a DC coupled resistive bridge SWR meter. On a related subject, when I was building the UHFSDR there were two problems on the section on T/R RF Switching - one as mentioned before is the reverse logic of the AS169, and therefore, lines 204 and 212 which for the AS169 are "continuity" rather then "no continuity" in my case the continuity was "buzzing" on the meter - not sure if I had some 50Hz getting in. I ignored it and the Tx is OK.
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> Tony
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> --- In UHFSDR@yahoogroups.com, Dave <dave@> wrote:
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> > Hank:
> > TP4 is receive antenna, TP5 is transmit antenna.
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> > Dave - WB6DHW
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> > On 3/21/2012 6:54 PM, Hank wrote:
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> > > Dave,
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> > > Sorry, at least one more question. On using seperate antenna paths and
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> > > antenna but the only antenna in/out on the board I see is J4. What am
> > > I missing that is right in front of my face.

> > >
> > > Hank
> > >
>

848. Re: UHFSDR build started

Yahoo group: UHFSDR
Date: 2012-03-24 05:19:36 UTC
From: ae9rb
Topic: 834 Message: 848

Thanks, gentlemen. It sounds like I'm on the right track. I'm now thinking this UHFSDR might actually end up VHF but I want to check it out on HF first for sure.

I just ordered a Cypress PSoC dev kit. Going to try some DSP code on the PSoC-5. The napkin-math looks good so wish me luck.

73 David AE9RB

849. Re: [UHFSDR] Oscillation at U10 Pin1 and Pin7

Yahoo group: UHFSDR
Date: 2012-03-30 02:19:37 UTC
From: Sid Boyce
Topic: 166 Message: 849

There is another post I can't find that mentioned reducing R21 and R22
from 100K to 10K.
I made the mod and it reduced the noise floor.

It worked perfectly until recently when the the sound level has gone
down to quite a low level but the image rejection is still OK.

Has anyone experienced the same?
73 ... Sid.

On 17/05/11 14:26, dl5cn wrote:
>
> Hallo,
> when I started to test the PCB I found an oscillation at the
> audio amps, U10 Pin 1 and Pin 7.
> The DC-Levels are as decribed in Dave's manual.
> The frequency was around 600 KHz, nearly 3V peak to peak.
> There was nothing visible at Q1 and Q2.
> When disconnecting the line-in cable, oscillation disappeared.
> First, I added two capacities 33p, one parallel to R21, the other
> parallel to R22. No further oscillation.
> So, it seems, the Opamps are oscillating with a given load.
> Probabaly resistors R68 and R69 have to be increased instead.
> Did anybody watch similar things .
> 73's
> Andreas
> DL5CN
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

850. Re: [UHFSDR] Oscillation at U10 Pin1 and Pin7

Yahoo group: UHFSDR
Date: 2012-03-30 02:21:51 UTC
From: MIKE DURKIN
Topic: 166 Message: 850

I might if had a comment if my f#%√π oscil-scope was working right...

-----Original Message-----

From: Sid Boyce
Sent: 30 Mar 2012 02:19:43 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Oscillation at U10 Pin1 and Pin7

There is another post I can't find that mentioned reducing R21 and R22
from 100K to 10K.
I made the mod and it reduced the noise floor.

It worked perfectly until recently when the the sound level has gone
down to quite a low level but the image rejection is still OK.

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73 ... Sid.

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> parallel to R22. No further oscillation.
> So, it seems, the Opamps are oscillating with a given load.
> Probabaly resistors R68 and R69 have to be increased instead.
> Did anybody watch similar things .
> 73's
> Andreas
> DL5CN
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>

--
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851. Re: [UHFSDR] Oscillation at U10 Pin1 and Pin7

Yahoo group: UHFSDR
Date: 2012-03-30 02:27:35 UTC
From: MIKE DURKIN
Topic: 166 Message: 851

How did it affect the low signal Rx sensitivity? At all?.... I could try 33k .... or 56k ... I have a SMD kit now ;)

-----Original Message-----

From: Sid Boyce
Sent: 30 Mar 2012 02:19:43 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Oscillation at U10 Pin1 and Pin7

There is another post I can't find that mentioned reducing R21 and R22 from 100K to 10K.
I made the mod and it reduced the noise floor.

It worked perfectly until recently when the the sound level has gone down to quite a low level but the image rejection is still OK.

Has anyone experienced the same?
73 ... Sid.

On 17/05/11 14:26, dl5cn wrote:
>
> Hallo,
> when I started to test the PCB I found an oscillation at the
> audio amps, U10 Pin 1 and Pin 7.
> The DC-Levels are as decribed in Dave's manual.
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> parallel to R22. No further oscillation.
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> Did anybody watch similar things .
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> Andreas
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>
>

--
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852. U12 replacement

Yahoo group: UHFSDR
Date: 2012-03-30 08:37:25 UTC
From: alex_egoshin
Topic: 852 Message: 852

Hi, all!
Today I broke U12 ((
Can I change it to another of a series of lp29xx?
What is the maximum current can flow through it?
In our shops only lp2980 and lp2985

73! de RA4SAF Alex

853. Re: [UHFSDR] U12 replacement

Yahoo group: UHFSDR
Date: 2012-03-30 19:05:18 UTC
From: Dave
Topic: 852 Message: 853

Alex:
The LVPECL version of the Si570 draws a max. of 130 mA. The lp2980 will not work as it is only rated for 50 mA. The lp2985 is rated at 150 mA and should work as long as you have the 3.3V version(-3.3 suffix).

Dave - WB6DHW
<http://wb6dhw.com>

On 3/30/2012 1:37 AM, alex_egoshin wrote:
>
> Hi, all!
> Today I broke U12 ((
> Can I change it to another of a series of lp29xx?
> What is the maximum current can flow through it?
> In our shops only lp2980 and lp2985
>
> 73! de RA4SAF Alex
>
>

854. Re: [UHFSDR] Oscillation at U10 Pin1 and Pin7

Yahoo group: UHFSDR
Date: 2012-03-30 22:04:29 UTC
From: Sid Boyce
Topic: 166 Message: 854

It was working perfectly well over 24/7 for a number of weeks at least
then suddenly S9 signals were at the level of S3 but perfectly copyable.

It's either the MC33078 or the FST. When I get some time again I'll
change R21/R22 back to 100K and see how it's affected.
73 ... Sid.

On 30/03/12 03:27, MIKE DURKIN wrote:
>
> How did it affect the low signal Rx sensitivity? At all?.... I could
> try 33k .... or 56k ... I have a SMD kit now ;)
>
> -----Original Message-----
>
> From: Sid Boyce
> Sent: 30 Mar 2012 02:19:43 GMT
> To: UHFSDR@yahoogroups.com
> Subject: Re: [UHFSDR] Oscillation at U10 Pin1 and Pin7
>
> There is another post I can't find that mentioned reducing R21 and R22
> from 100K to 10K.
> I made the mod and it reduced the noise floor.
>
> It worked perfectly until recently when the the sound level has gone
> down to quite a low level but the image rejection is still OK.
>
> Has anyone experienced the same?
> 73 ... Sid.
>
> On 17/05/11 14:26, dl5cn wrote:
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>> Hallo,
>> when I started to test the PCB I found an oscillation at the
>> audio amps, U10 Pin 1 and Pin 7.
>> The DC-Levels are as decribed in Dave's manual.
>> The frequency was around 600 KHz, nearly 3V peak to peak.
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>> parallel to R22. No further oscillation.
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>> Did anybody watch similar things .
>> 73's
>> Andreas

>> DL5CN
>>
>
>
> --
> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
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855. UHFSDR Si570 no control from HDsdr

Yahoo group: UHFSDR
Date: 2012-03-31 16:21:22 UTC
From: g.suggate
Topic: 855 Message: 855

Hello All,
I've got to the "test the rx" stage and find that I can change the freq of the Si570 (AAA000514G) using Si570.exe. However when I try HDSDR via the LPT wiring diagram on page 4 of the Assembly Instructions I get no freq. change. It just oscillates on 40mhz. I then tried PowerSDR-IQ using the connections on page 10 and 11, again with no freq change.

I assume the Si570 freq should change with these programs regardless of a working sound card?

I have read on other sites about dll files and "loading the Si570" but as I have no idea how to do that and it is not in the assembly instructions I have not tried anything else.

Any ideas please?

Geoff G3NPI Buckingham UK

856. RE: [UHFSDR] UHFSDR Si570 no control from HDsdr

Yahoo group: UHFSDR
Date: 2012-03-31 16:54:21 UTC
From: MIKE DURKIN
Topic: 855 Message: 856

How many/much resistance do you have going to the pullup resistors for the input to the udm1251? Don't go below 1k ....

-----Original Message-----

From: g.suggate
Sent: 31 Mar 2012 16:21:27 GMT
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] UHFSDR Si570 no control from HDsdr

Hello All,
I've got to the "test the rx" stage and find that I can change the freq of the Si570 (AAA000514G) using Si570.exe. However when I try HDSDR via the LPT wiring diagram on page 4 of the Assembly Instructions I get no freq. change. It just oscillates on 40mhz. I then tried PowerSDR-IQ using the connections on page 10 and 11, again with no freq change.

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Any ideas please?

Geoff G3NPI Buckingham UK

857. 100W LPF missing cap

Yahoo group: UHFSDR
Date: 2012-04-02 03:28:52 UTC
From: brainerdd
Topic: 857 Message: 857

I think I left out the 2 470pF caps in the kits I mailed out so far. They are used in the 40 meter filter. If you ordered a kit and are missing the 470pF caps, let me know and I will send them when they arrive here(hopefully by the end of the week)

Dave - WB6DHW

858. Re: UHFSDR Si570 no control from HDsdr

Yahoo group: UHFSDR
Date: 2012-04-02 08:43:53 UTC
From: g.suggate
Topic: 855 Message: 858

Thanks Mike, I looked at the resistors and confirm they are 1k.
I also received a direct reply from G4CPE who provided the following info:-
In Power SDR IQ have you set the LPT address to 378 and Radio to SDR (Si570) ?
Also in the Hardware Config you will need to click (expert) then set Divider to 2 and in the (Max Freq Hz) add one extra 0 to the Freq.

After amending the settings as above the Power SDR IQ now changes the freq of the Si570.

As I am not yet receiving signals is there any other files or settings I need to know about?

Many thanks, I am now a step nearer completion.

Geoff G3NPI Buckingham UK

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
> How many/much resistance do you have going to the pullup resistors for the input to the udm1251? Don't go below 1k ....
>
> -----Original Message-----
>
> From: g.suggate
> Sent: 31 Mar 2012 16:21:27 GMT
> To: UHFSDR@yahoogroups.com
> Subject: [UHFSDR] UHFSDR Si570 no control from HDsdr
>
> Hello All,
> I've got to the "test the rx" stage and find that I can change the freq of the Si570 (AAA000514G) using Si570.exe. However when I try HDSDR via the LPT wiring diagram on page 4 of the Assembly Instructions I get no freq. change. It just oscillates on 40mhz. I then tried PowerSDR-IQ using the connections on page 10 and 11, again with no freq change.
>
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>
> I have read on other sites about dll files and "loading the Si570" but as I have no idea how to do that and it is not in the assembly instructions I have not tried anything else.
>
> Any ideas please?
>
> Geoff G3NPI Buckingham UK
>

859. RE: [UHFSDR] Re: UHFSDR Si570 no control from HDsdr

Yahoo group: UHFSDR
Date: 2012-04-02 09:58:49 UTC
From: MIKE DURKIN
Topic: 855 Message: 859

Im not sure to which step in the build your at right now to answer your question ...

You can run SDRsharp while running powersdr .... sdr# is quite simple right now to listen to I/q from the UHFSDR - via the sound card. If you want to try to listen directly you can use a stereo jumper from the "out" to "in" and then put a standard 1/8" headphones into the headphone jack and hear something ... be it kinda quiet. I think that works when your near finished with the build. Do you remember what relays you received with the kit?

-----Original Message-----

From: g.suggate
Sent: 2 Apr 2012 08:44:01 GMT
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Re: UHFSDR Si570 no control from HDsdr

Thanks Mike, I looked at the resistors and confirm they are 1k.
I also received a direct reply from G4CPE who provided the following info:-
In Power SDR IQ have you set the LPT address to 378 and Radio to SDR (Si570) ?
Also in the Hardware Config you will need to click (expert) then set Divider to 2 and in the (Max Freq Hz) add one extra 0 to the Freq.

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Geoff G3NPI Buckingham UK

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
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> From: g.suggate
> Sent: 31 Mar 2012 16:21:27 GMT
> To: UHFSDR@yahoogroups.com
> Subject: [UHFSDR] UHFSDR Si570 no control from HDsdr
>
> Hello All,
> I've got to the "test the rx" stage and find that I can change the freq of the Si570 (AAA000514G) using Si570.exe. However when I try HDSDR via the LPT wiring diagram on page 4 of the Assembly Instructions I get no freq. change. It just oscillates on 40mhz. I then tried PowerSDR-IQ using the connections on page 10 and 11, again with no freq change.

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>
> Any ideas please?
>
> Geoff G3NPI Buckingham UK
>

860. ESD !!

Yahoo group: UHFSDR
Date: 2012-04-07 17:27:12 UTC
From: Gareth
Topic: 860 Message: 860

Hi there guys.
How could I protect my assembly of the UHFSDR kit from static by using a standard 25 watt soldering iron ?
Do you think I should ground out the main body of the soldering iron (metal part that holds the tip) but closer to the handle ??
Or should I really wait to get a ESD soldering iron ??
Any advice please much appreciated !!
Thanks 73's
Gareth 2E0GGO.

861. Re: [UHFSDR] ESD !!

Yahoo group: UHFSDR
Date: 2012-04-07 17:44:41 UTC
From: Sid Boyce
Topic: 860 Message: 861

Advisable ... check
http://www.nikkemedia.fi/juma-trx2/manual/TRX2manV2.6.5.pdf to see how
they've done it.
73 ... Sid.

On 07/04/12 18:27, Gareth wrote:
>
> Hi there guys.
> How could I protect my assembly of the UHFSDR kit from static by using
> a standard 25 watt soldering iron ?
> Do you think I should ground out the main body of the soldering iron
> (metal part that holds the tip) but closer to the handle ??
> Or should I really wait to get a ESD soldering iron ??
> Any advice please much appreciated !!
> Thanks 73's
> Gareth 2E0GGO.
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

862. Uhf Sdr Rx finished

Yahoo group: UHFSDR
Date: 2012-04-09 02:06:54 UTC
From: rubines2000
Topic: 862 Message: 862

Hi

This weekend I made my first RX tests and the radio worked great.
Thank you Dave for this fine project.

Happy Easter

Michael OE1MIS

863. UHFSDR Full Kits and Si570's

Yahoo group: UHFSDR
Date: 2012-04-09 04:25:23 UTC
From: The Silver Fox
Topic: 863 Message: 863

I am down to my last couple of si570s with which to complete UHFSDR full kits for end users. I would like to get some measure of interest before I commit to ordering another bulk buy of expensive si570s. I sell si570's separate from the full UHFSDR kits for $75 and the full kits are currently $194 USD US and $198 DX.

Thanks for the past interest and purchases.

73's

Alan - W6ARH

864. RE: [UHFSDR] UHFSDR Full Kits and Si570's

Yahoo group: UHFSDR
Date: 2012-04-09 05:27:35 UTC
From: MIKE DURKIN
Topic: 863 Message: 864

Hummm... I get no bites on the ones I have ....

Maybe ill assemble one more full kit and get em gone that way ... Si570BAA

-----Original Message-----

From: The Silver Fox
Sent: 9 Apr 2012 04:25:28 GMT
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] UHFSDR Full Kits and Si570's

I am down to my last couple of si570s with which to complete UHFSDR full kits for end users. I would like to get some measure of interest before I commit to ordering another bulk buy of expensive si570s. I sell si570's separate from the full UHFSDR kits for $75 and the full kits are currently $194 USD US and $198 DX.

Thanks for the past interest and purchases.

73's

Alan - W6ARH

865. RE: [UHFSDR] UHFSDR Full Kits and Si570's

Yahoo group: UHFSDR
Date: 2012-04-09 05:51:22 UTC
From: Charlie Kahwagi
Topic: 863 Message: 865

Hi Alan, I would like to purchase another full kit please.

Kindest Regards

Charlie VK3NX

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of The Silver Fox
Sent: Monday, 9 April 2012 2:25 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] UHFSDR Full Kits and Si570's

I am down to my last couple of si570s with which to complete UHFSDR full kits for end users. I would like to get some measure of interest before I commit to ordering another bulk buy of expensive si570s. I sell si570's separate from the full UHFSDR kits for $75 and the full kits are currently $194 USD US and $198 DX.

Thanks for the past interest and purchases.

73's

Alan - W6ARH

866. Re: [UHFSDR] UHFSDR Full Kits and Si570's

Yahoo group: UHFSDR
Date: 2012-04-09 12:00:20 UTC
From: Gareth Jones
Topic: 863 Message: 866

Hi ya there Alan.
I for one would like to be considered for a si570 A grade for my existing UHFSDR i have yet to build.
Please let me know If you can provide me with one buy the end of the month .
How much would it be sent to me here in the U.K.
I dont think we can get one here!!
Well not that I am aware.
Cheers mate and 73's
Gareth 2E0GGO.

From: The Silver Fox <alan.r.hill@...>
To: UHFSDR@yahoogroups.com
Sent: Monday, 9 April 2012, 5:25
Subject: [UHFSDR] UHFSDR Full Kits and Si570's

I am down to my last couple of si570s with which to complete UHFSDR full kits for end users. I would like to get some measure of interest before I commit to ordering another bulk buy of expensive si570s. I sell si570’s separate from the full UHFSDR kits for $75 and the full kits are currently $194 USD US and $198 DX.
Thanks for the past interest and purchases.
73’s
Alan – W6ARH

867. Re: [UHFSDR] UHFSDR Full Kits and Si570's

Yahoo group: UHFSDR
Date: 2012-04-09 12:11:03 UTC
From: Stephen Farthing
Topic: 863 Message: 867

Gareth (and the list),

Not trying to rain on anyone's parade here but you can get all grades of Si570 and some synth kits that use them from www.sdr-kits.net.

I am quite interested in a UHF SDR kit without the Si570. I already have the partial kit to build but I can use 2, one for HF and one for VHF UHF.

73s Steve G0XAR

--
Wisdom demands a new orientation of science and technology towards the organic, the gentle, the non-violent, the elegant and beautiful. E. F. Schumacher

868. Re: [UHFSDR] UHFSDR Full Kits and Si570's

Yahoo group: UHFSDR
Date: 2012-04-09 14:41:17 UTC
From: MIKE DURKIN
Topic: 863 Message: 868

That's £64.20 for a Si570DBA .... what's the conversion rate?.... no rain felt here..

Mike KC7NOA

-----Original Message-----

From: Stephen Farthing
Sent: 9 Apr 2012 12:11:11 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] UHFSDR Full Kits and Si570's

Gareth (and the list),

Not trying to rain on anyone's parade here but you can get all grades of
Si570 and some synth kits that use them from www.sdr-kits.net.

I am quite interested in a UHF SDR kit without the Si570. I already have
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73s Steve G0XAR

--
Wisdom demands a new orientation of science and technology towards the
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Schumacher

869. RE: [UHFSDR] UHFSDR Full Kits and Si570's

Yahoo group: UHFSDR
Date: 2012-04-09 16:32:30 UTC
From: MIKE DURKIN
Topic: 863 Message: 869

ok , thats what i figured .. just googled it and
64.20 British pounds sterling = 101.8533 US dollars
And im only asking 65$ for a Si570BAA
To: UHFSDR@yahoogroups.com
From: Patriot121@...
Date: Mon, 9 Apr 2012 07:41:17 -0700
Subject: Re: [UHFSDR] UHFSDR Full Kits and Si570's

That's £64.20 for a Si570DBA .... what's the conversion rate?.... no rain felt here..

Mike KC7NOA

-----Original Message-----

From: Stephen Farthing

Sent: 9 Apr 2012 12:11:11 GMT

To: UHFSDR@yahoogroups.com

Subject: Re: [UHFSDR] UHFSDR Full Kits and Si570's

Gareth (and the list),

Not trying to rain on anyone's parade here but you can get all grades of Si570 and some synth kits that use them from
www.sdr-kits.net.

I am quite interested in a UHF SDR kit without the Si570. I already have the partial kit to build but I can use 2, one for HF and one for VHF UHF.

73s Steve G0XAR

--

Wisdom demands a new orientation of science and technology towards the organic, the gentle, the non-violent, the elegant and beautiful. E. F. Schumacher

870. Re: [UHFSDR] UHFSDR Full Kits and Si570's

Yahoo group: UHFSDR
Date: 2012-04-09 16:40:12 UTC
From: Stacy Williams
Topic: 863 Message: 870

Hi Alan

Please consider me in for a full UHF kit too, when soon funds become available. But, in the meantime, I would like a Si570 A please, Im in the UK too.

Regards & 73
m0wsa
Stacy Williams

On Apr 9, 2012 4:25 AM, "The Silver Fox" <alan.r.hill@...> wrote:
>
>
>
> I am down to my last couple of si570s with which to complete UHFSDR full kits for end users. I would like to get some measure of interest before I commit to ordering another bulk buy of expensive si570s. I sell si570’s separate from the full UHFSDR kits for $75 and the full kits are currently $194 USD US and $198 DX.
>
> Thanks for the past interest and purchases.
>
> 73’s
>
> Alan – W6ARH
>
>
>
>

871. Si570s and Full Kits

Yahoo group: UHFSDR
Date: 2012-04-09 17:39:27 UTC
From: The Silver Fox
Topic: 871 Message: 871

Thanks for the responses. I will go ahead and order more Si570's. The delivery estimate is four to six weeks.

73's

Alan - W6ARH

872. Full Kit Status

Yahoo group: UHFSDR
Date: 2012-04-09 23:21:31 UTC
From: The Silver Fox
Topic: 238 Message: 872

I will not be able to fill any further orders until the next batch of Si570's arrive in 6-7 weeks. If you are interested in ordering, I will continue to accept orders which I will fill and ship in the order received. Thanks to all who have supported this project in the past. In addition to the full SDR kits I am selling the UHFSDR 570s for $75. To reward those who order the si570s before they arrive I will sell them for $70 until the shipment is here.

73's

Alan - W6ARH

873. Re: [UHFSDR] Full Kit Status

Yahoo group: UHFSDR
Date: 2012-04-09 23:58:53 UTC
From: Jim Sanford
Topic: 238 Message: 873

Alan:

Just got my UHFSDR last week. Now gotta figure out how to hook it up, etc. Assuming all goes well, I will probably want another one for the rover station. Maybe in your next batch, but more likely in the one after that. (Gotta go easy on the radio $$ for a while!)

I am very impressed with the board, and read a very good article about frequency stability once warmed up. Thinking about mounting mine with a closed loop heater (like for 10 GHz gunnplexers) and inside insulation to minimize the temperature variation.

Will advise.

Thanks & 73,
Jim
wb4gcs@...

On 4/9/2012 7:21 PM, The Silver Fox wrote:
>
> I will not be able to fill any further orders until the next batch of
> Si570's arrive in 6-7 weeks. If you are interested in ordering, I
> will continue to accept orders which I will fill and ship in the order
> received. Thanks to all who have supported this project in the past.
> In addition to the full SDR kits I am selling the UHFSDR 570s for
> $75. To reward those who order the si570s before they arrive I will
> sell them for $70 until the shipment is here.
>
> 73's
>
> Alan -- W6ARH
>
>

874. Re: UHFSDR Si570 no control from HDsdr

Yahoo group: UHFSDR
Date: 2012-04-21 18:44:07 UTC
From: g.suggate
Topic: 855 Message: 874

Hello Mike,

Thanks for the info. I had not heard of SDRsharp.
UHFSDR now working on RX. Almost all problems with the RX section were caused by poor soldering. As I do not have much test equipment I had to skip some of the stage testing. Not surprisingly the SDR did not work on completion. I carefully checked for continuity between all components, re-soldered the poor joints and it came to life. You asked which relays I had, well the outer packet said HMC544 and I set the H5 strap for that type. When I started to investigate why I got no signal through the rx amp I discovered that in fact the relays were AS169 so reset the strap.
At this stage an S9 signal would produce a "fir tree" of signals every 2.5 khz or so. Buying an expensive sound card fixed this problem.
Now for the TX side: I am getting a very low level signal out. My power meter will read 100mw but does not move on the signal from the UHFSDR. The PowerSDR screen reads 200mw but that is not reading real rf output power. I know it is producing rf because I can hear it in a nearby rx. I am going to borrow a quality scope in the next couple of days, so if anybody has a guide as to what I should see at various points in the TX chain it would prove a great help in tracing this fault

73 Geoff G3NPI Buckingham UK

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
> Im not sure to which step in the build your at right now to answer your question ...
>
> You can run SDRsharp while running powersdr .... sdr# is quite simple right now to listen to I/q from the UHFSDR - via the sound card. If you want to try to listen directly you can use a stereo jumper from the "out" to "in" and then put a standard 1/8" headphones into the headphone jack and hear something ... be it kinda quiet. I think that works when your near finished with the build. Do you remember what relays you received with the kit?
>
>
>
> -----Original Message-----
>
> From: g.suggate
> Sent: 2 Apr 2012 08:44:01 GMT
> To: UHFSDR@yahoogroups.com
> Subject: [UHFSDR] Re: UHFSDR Si570 no control from HDsdr
>
> Thanks Mike, I looked at the resistors and confirm they are 1k.
> I also received a direct reply from G4CPE who provided the following info:-
> In Power SDR IQ have you set the LPT address to 378 and Radio to SDR (Si570) ?
> Also in the Hardware Config you will need to click (expert) then set Divider to 2 and in the (Max Freq Hz) add one extra 0 to the Freq.
>

> After amending the settings as above the Power SDR IQ now changes the freq of the Si570.
>
> As I am not yet receiving signals is there any other files or settings I need to know about?
>
> Many thanks, I am now a step nearer completion.
>
> Geoff G3NPI Buckingham UK
>
>
> --- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@> wrote:
> >
> > How many/much resistance do you have going to the pullup resistors for the input to the udm1251? Don't go below 1k ....
> >
> > -----Original Message-----
> >
> > From: g.suggate
> > Sent: 31 Mar 2012 16:21:27 GMT
> > To: UHFSDR@yahoogroups.com
> > Subject: [UHFSDR] UHFSDR Si570 no control from HDsdr
> >
> > Hello All,
> > I've got to the "test the rx" stage and find that I can change the freq of the Si570 (AAA000514G) using Si570.exe. However when I try HDSDR via the LPT wiring diagram on page 4 of the Assembly Instructions I get no freq. change. It just oscillates on 40mhz. I then tried PowerSDR-IQ using the connections on page 10 and 11, again with no freq change.
> >
> > I assume the Si570 freq should change with these programs regardless of a working sound card?
> >
> > I have read on other sites about dll files and "loading the Si570" but as I have no idea how to do that and it is not in the assembly instructions I have not tried anything else.
> >
> > Any ideas please?
> >
> > Geoff G3NPI Buckingham UK
> >
>

875. Re: UHFSDR Si570 no control from HDsdr

Yahoo group: UHFSDR
Date: 2012-04-22 13:30:28 UTC
From: g.suggate
Topic: 855 Message: 875

Thank you for your comments Chuck. The problem was lack of gain but fortunately just because I had not turned the audio up enough.....

The PA Setting in my version of PowerSDR V1.19.20 I think. Does not have any adjustments. Anyway as I am now getting 50 mw out I cannot expect any more.

The last problem is how do I send CW with a straight key? Using the UHFSDR and Psdr. Has anybody got this working?
Many thanks

Geoff G3NPI Buckingham UK

--- In UHFSDR@yahoogroups.com, "g.suggate" <g.suggate@...> wrote:
>
> Hello Mike,
>
> Thanks for the info. I had not heard of SDRsharp.
> UHFSDR now working on RX. Almost all problems with the RX section were caused by poor soldering. As I do not have much test equipment I had to skip some of the stage testing. Not surprisingly the SDR did not work on completion. I carefully checked for continuity between all components, re-soldered the poor joints and it came to life. You asked which relays I had, well the outer packet said HMC544 and I set the H5 strap for that type. When I started to investigate why I got no signal through the rx amp I discovered that in fact the relays were AS169 so reset the strap.
> At this stage an S9 signal would produce a "fir tree" of signals every 2.5 khz or so. Buying an expensive sound card fixed this problem.
> Now for the TX side: I am getting a very low level signal out. My power meter will read 100mw but does not move on the signal from the UHFSDR. The PowerSDR screen reads 200mw but that is not reading real rf output power. I know it is producing rf because I can hear it in a nearby rx. I am going to borrow a quality scope in the next couple of days, so if anybody has a guide as to what I should see at various points in the TX chain it would prove a great help in tracing this fault
>
> 73 Geoff G3NPI Buckingham UK
>
> --- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@> wrote:
> >
> > Im not sure to which step in the build your at right now to answer your question ...
> >
> > You can run SDRsharp while running powersdr .... sdr# is quite simple right now to listen to I/q from the UHFSDR - via the sound card. If you want to try to listen directly you can use a stereo jumper from the "out" to "in" and then put a standard 1/8" headphones into the headphone jack and hear something ... be it kinda quiet. I think that works when your near finished with the build. Do you remember what relays you received with the kit?
> >
> >

> >
> > -----Original Message-----
> >
> > From: g.suggate
> > Sent: 2 Apr 2012 08:44:01 GMT
> > To: UHFSDR@yahoogroups.com
> > Subject: [UHFSDR] Re: UHFSDR Si570 no control from HDsdr
> >
> > Thanks Mike, I looked at the resistors and confirm they are 1k.
> > I also received a direct reply from G4CPE who provided the following info:-
> > In Power SDR IQ have you set the LPT address to 378 and Radio to SDR (Si570) ?
> > Also in the Hardware Config you will need to click (expert) then set Divider to 2 and in the (Max Freq Hz) add one extra 0 to the Freq.
> >
> > After amending the settings as above the Power SDR IQ now changes the freq of the Si570.
> >
> > As I am not yet receiving signals is there any other files or settings I need to know about?
> >
> > Many thanks, I am now a step nearer completion.
> >
> > Geoff G3NPI Buckingham UK
> >
> >
> > --- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@> wrote:
> > >
> > > How many/much resistance do you have going to the pullup resistors for the input to the udm1251? Don't go below 1k ....
> > >
> > > -----Original Message-----
> > >
> > > From: g.suggate
> > > Sent: 31 Mar 2012 16:21:27 GMT
> > > To: UHFSDR@yahoogroups.com
> > > Subject: [UHFSDR] UHFSDR Si570 no control from HDsdr
> > >
> > > Hello All,
> > > I've got to the "test the rx" stage and find that I can change the freq of the Si570 (AAA000514G) using Si570.exe. However when I try HDSDR via the LPT wiring diagram on page 4 of the Assembly Instructions I get no freq. change. It just oscillates on 40mhz. I then tried PowerSDR-IQ using the connections on page 10 and 11, again with no freq change.
> > >
> > > I assume the Si570 freq should change with these programs regardless of a working sound card?
> > >
> > > I have read on other sites about dll files and "loading the Si570" but as I have no idea how to do that and it is not in the assembly instructions I have not tried anything else.
> > >

> > > Any ideas please?
> > >
> > > Geoff G3NPI Buckingham UK
> > >
> >
>

876. 1.5 KW Diplexer Filters

Yahoo group: UHFSDR
Date: 2012-04-26 07:34:43 UTC
From: brainerdd
Topic: 876 Message: 876

I ordered 100 HPLPF(1.5KW Diplexer) filter boards. They should arrive in about 2 weeks. I have added the project to the For_Sale page.

Dave - WB6DHW
<http://wb6dhw.com>

877. Si570 kits

Yahoo group: UHFSDR
Date: 2012-04-26 07:37:14 UTC
From: brainerdd
Topic: 877 Message: 877

I am bringing back the Si570 kit. I just ordered 200 boards and moved the kit back to the For_Sale page. Note the kit does not include the Si570. Also, the kit will work with any oscillator in a standard 5 X 7 can.

Dave - WB6DHW
<http://wb6dhw.com>

878. Quisk hardware model

Yahoo group: UHFSDR
Date: 2012-04-27 06:24:51 UTC
From: MIKE DURKIN
Topic: 878 Message: 878

Any one have a Quisk hardware model for the UHFSDR and soundcard ??

Mike KC7NOA

879. Re: [UHFSDR] Quisk hardware model

Yahoo group: UHFSDR
Date: 2012-04-27 09:13:15 UTC
From: Sid Boyce
Topic: 878 Message: 879

It's the same as for Softrock except for the si570 multiplier.
Alex did come up with firmware for the SDR-Widget that allowed it to
take x4 and interpret it as x2.

For UHFSDR I have a script that set the eeprom in the si570 so we always
get the x2 multiplier.

```
------------------- cut --------------------------
#!/bin/sh
usbsoftrock set si570_multiplier 0 0.5
usbsoftrock set si570_multiplier 1 0.5
usbsoftrock set si570_multiplier 2 0.5
usbsoftrock set si570_multiplier 3 0.5
usbsoftrock set si570_multiplier 4 0.5
usbsoftrock set si570_multiplier 5 0.5
usbsoftrock set si570_multiplier 6 0.5
usbsoftrock set si570_multiplier 7 0.5
usbsoftrock set si570_multiplier 8 0.5
------------------- cut --------------------------
```

These are per band settings.
73 ... Sid.

On 27/04/12 07:24, MIKE DURKIN wrote:
>
> Any one have a Quisk hardware model for the UHFSDR and soundcard ??
>
> Mike KC7NOA
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

880. Re: [UHFSDR] Quisk hardware model

Yahoo group: UHFSDR
Date: 2012-04-27 09:31:50 UTC
From: Sid Boyce
Topic: 878 Message: 880

Mike,
quisk_hardware_vk6jbl.py is the hardware model for both Softrock and UHFSDR.

See the line "import quisk_hardware_vk6jbl as quisk_hardware" in
~/.quisk_conf.py.
73 ... Sid.

On 27/04/12 10:13, Sid Boyce wrote:
>
> It's the same as for Softrock except for the si570 multiplier.
> Alex did come up with firmware for the SDR-Widget that allowed it to
> take x4 and interpret it as x2.
>
> For UHFSDR I have a script that set the eeprom in the si570 so we
> always get the x2 multiplier.
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> usbsoftrock set si570_multiplier 8 0.5
> ------------------- cut --------------------------
> These are per band settings.
> 73 ... Sid.
>
> On 27/04/12 07:24, MIKE DURKIN wrote:
>
>> Any one have a Quisk hardware model for the UHFSDR and soundcard ??
>>
>> Mike KC7NOA
>
>
> --
> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
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>

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Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot

Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
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Microsoft Windows Free Zone - Linux used for all Computing Tasks

881. Re: Quisk hardware model

Yahoo group: UHFSDR
Date: 2012-04-27 09:55:21 UTC
From: john4guys@aol.com
Topic: 878 Message: 881

In the python code, (on my XP system: C:\Python27\Lib\site-packages\quisk\softrock)change the /4 frequency lines (I believe they are commented that way) to /2. I think this is in the hardware_usb python file. If you're using one of the softrock AVR chips to control the Si570, PTT and so forth, this should work. I don't know if anyone has used Quisk with other controllers for the UHFSDR board.
John N1EEV

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
>
> Any one have a Quisk hardware model for the UHFSDR and soundcard ??
>
> Mike KC7NOA
>

882. Re: Quisk hardware model

Yahoo group: UHFSDR
Date: 2012-04-27 15:06:58 UTC
From: Robert Lorenzini
Topic: 878 Message: 882

I think all you need to change is -m 4 to -m 2 where you start usbsoftrock.

883. Si570 exact part number

Yahoo group: UHFSDR
Date: 2012-04-28 00:42:04 UTC
From: Jim
Topic: 883 Message: 883

In researching the Silicon Labs website order page for Si570 I find that it requires entry of several parameters to define the exact part number. Does someone know if there is a specification callout on the UHFSDR schematic that defines U14 required parmeters? I ask this question because the Output Enable selection defaults to active high, but I don't know whether the available control software requires the enable to be active high or low. How about the tolerance, is +-20ppm required?

Thanks
Jim Brennan
KJ6VRI

884. Re: [UHFSDR] Quisk hardware model

Yahoo group: UHFSDR
Date: 2012-04-27 23:24:01 UTC
From: MIKE DURKIN
Topic: 878 Message: 884

Is that the same file that I place the soundcard declarations?(its copy) or in HOME/quisk_def.py ....

Mike KC7NOA

-----Original Message-----

From: Sid Boyce
Sent: 27 Apr 2012 09:33:54 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Quisk hardware model

Mike,
quisk_hardware_vk6jbl.py is the hardware model for both Softrock and UHFSDR.

See the line "import quisk_hardware_vk6jbl as quisk_hardware" in ~/.quisk_conf.py.
73 ... Sid.

On 27/04/12 10:13, Sid Boyce wrote:
>
> It's the same as for Softrock except for the si570 multiplier.
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> These are per band settings.
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> On 27/04/12 07:24, MIKE DURKIN wrote:
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>
> --
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Senior Staff Specialist, Cricket Coach
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885. RE: [UHFSDR] Quisk hardware model

Yahoo group: UHFSDR
Date: 2012-04-27 16:42:18 UTC
From: MIKE DURKIN
Topic: 878 Message: 885

I dont see just a "quisk_conf.py" .....

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: sboyce@...
Date: Fri, 27 Apr 2012 10:31:50 +0100
Subject: Re: [UHFSDR] Quisk hardware model

Mike,

quisk_hardware_vk6jbl.py is the hardware model for both Softrock and UHFSDR.

See the line "import quisk_hardware_vk6jbl as quisk_hardware" in ~/.quisk_conf.py.

73 ... Sid.

On 27/04/12 10:13, Sid Boyce wrote:

It's the same as for Softrock except for the si570 multiplier.

Alex did come up with firmware for the SDR-Widget that allowed it to take x4 and interpret it as x2.

For UHFSDR I have a script that set the eeprom in the si570 so we always get the x2 multiplier.

```
------------------- cut --------------------------

#!/bin/sh

usbsoftrock set si570_multiplier 0 0.5

usbsoftrock set si570_multiplier 1 0.5

usbsoftrock set si570_multiplier 2 0.5

usbsoftrock set si570_multiplier 3 0.5

usbsoftrock set si570_multiplier 4 0.5

usbsoftrock set si570_multiplier 5 0.5

usbsoftrock set si570_multiplier 6 0.5

usbsoftrock set si570_multiplier 7 0.5
```

usbsoftrock set si570_multiplier 8 0.5

---------- cut ----------

These are per band settings.

73 ... Sid.

On 27/04/12 07:24, MIKE DURKIN wrote:

Any one have a Quisk hardware model for
the UHFSDR and soundcard ??

Mike KC7NOA

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

886. RE: [UHFSDR] Si570 exact part number

Yahoo group: UHFSDR
Date: 2012-04-28 06:41:08 UTC
From: MIKE DURKIN
Topic: 883 Message: 886

For HF .. once its warmed up .. you will never notice ....
Unless its under a Heater/AC vent .....

There is not "call out" just a listing / reference for various part placements depending on the Si570 you have.

can you read the full part number on the Si570?? its the second line....

As far as teh Active high or low .. that depends on what you have for a Si570 and nothing to do with the firmware/software .. teh Si570 should be active all the time .. 100% duty cycle....

Most new Si570 have "active on" internally .. be it low or high enable.....

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: jimbr99@...
Date: Sat, 28 Apr 2012 00:42:04 +0000
Subject: [UHFSDR] Si570 exact part number

In researching the Silicon Labs website order page for Si570 I find that it requires entry of several parameters to define the exact part number. Does someone know if there is a specification callout on the UHFSDR schematic that defines U14 required parmeters? I ask this question because the Output Enable selection defaults to active high, but I don't know whether the available control software requires the enable to be active high or low. How about the tolerance, is +-20ppm required?

Thanks

Jim Brennan

KJ6VRI

887. Re: [UHFSDR] Si570 exact part number

Yahoo group: UHFSDR
Date: 2012-04-28 06:54:47 UTC
From: Dave
Topic: 883 Message: 887

Jim:
There is no call out on the schematic. The output enable is not controlled by any of the software that I know of. H2 on the UHFSDR can be set for either enable polarity. Either leave open or connect pins 1 and 2 for active high. Connect pins 2 and 3 if active low. This could be computer controlled, although I don't know of anyone who has done so. The default Output Enable selection is fine.
The IQ generation requires drivers with both Q and /Q outputs. That means LVDS, LVPECL. CMOS will not work. I recommend LVPECL.
The frequency grade depends on the maximum frequency(which is 1/2 of the Si570 freq) you want the UHFSDR to work at. You only need the expensive A grade if you want to operate at 70 cm and above.
The default frequency is up to you. I picked 19.982 MHz because I use PowerSDR-IQ which has a 9 KHz offset from center. With the divide by 2, the LO will be at 9.991MHz, which is 9 KHz from WWV at 10 MHz making it possible to check the UHFSDR without programming the Si570.
If you have a favorite frequency, pick 2X that frequency.

Dave - WB6DHW
<http://wb6dhw.com>

On 4/27/2012 5:42 PM, Jim wrote:
>
> In researching the Silicon Labs website order page for Si570 I find
> that it requires entry of several parameters to define the exact part
> number. Does someone know if there is a specification callout on the
> UHFSDR schematic that defines U14 required parmeters? I ask this
> question because the Output Enable selection defaults to active high,
> but I don't know whether the available control software requires the
> enable to be active high or low. How about the tolerance, is +-20ppm
> required?
>
> Thanks
> Jim Brennan
> KJ6VRI
>
>
>

888. Re: [UHFSDR] Si570 exact part number

Yahoo group: UHFSDR
Date: 2012-04-28 06:51:50 UTC
From: w9amr@aol.com
Topic: 883 Message: 888

Hi Jim

The active "high" or "active low" is selectable by jumper H2. Either device will work. The other parameters are personal preference. The UHFSDR is very universal in it's design. Decide the stability and frequency range you desire and order accordingly. Follow the appropriate build note references. I prefer the AAA version as it will support full frequency range.

Larry W9AMR

In a message dated 4/28/2012 2:29:08 A.M. Eastern Daylight Time, jimbr99@... writes:

In researching the Silicon Labs website order page for Si570 I find that it requires entry of several parameters to define the exact part number. Does someone know if there is a specification callout on the UHFSDR schematic that defines U14 required parmeters? I ask this question because the Output Enable selection defaults to active high, but I don't know whether the available control software requires the enable to be active high or low. How about the tolerance, is +-20ppm required?

Thanks
Jim Brennan
KJ6VRI

889. Re: [UHFSDR] Si570 exact part number

Yahoo group: UHFSDR
Date: 2012-04-28 07:13:35 UTC
From: w9amr@aol.com
Topic: 883 Message: 889

Hi Mike

I think the active High-low he is referring to is pin 2 "oe" pin. it is basicly a on off switch for the Si570. We don't use it but need to know the state the particular Si570 expects it to be.

Larry W9AMR

In a message dated 4/28/2012 3:09:53 A.M. Eastern Daylight Time, Patriot121@... writes:

For HF .. once its warmed up .. you will never notice ....
Unless its under a Heater/AC vent .....

There is not "call out" just a listing / reference for various part placements depending on the Si570 you have.

can you read the full part number on the Si570?? its the second line....

As far as teh Active high or low .. that depends on what you have for a Si570 and nothing to do with the firmware/software .. teh Si570 should be active all the time .. 100% duty cycle....

Most new Si570 have "active on" internally .. be it low or high enable.....

Mike KC7NOA

To: UHFSDR@...m
From: jimbr99@...
Date: Sat, 28 Apr 2012 00:42:04 +0000
Subject: [UHFSDR] Si570 exact part number

In researching the Silicon Labs website order page for Si570 I find that it requires entry of several parameters to define the exact part number. Does someone know if there is a specification callout on the UHFSDR schematic that defines U14 required parmeters? I ask this question because the Output Enable selection defaults to active high, but I don't know whether the available control software requires the enable to be active high or low. How about the tolerance, is +-20ppm required?

Thanks
Jim Brennan
KJ6VRI

890. Re: [UHFSDR] Quisk hardware model

Yahoo group: UHFSDR
Date: 2012-04-28 12:22:07 UTC
From: Sid Boyce
Topic: 878 Message: 890

I screwed up in the file I sent you, it's a .tar.gz file not .tar.bz2.
There is a file that need to go in your home directory as .quisk_conf.py.
"quisk-3.6.1/quisk_conf.py_for_Softrock-G3VBV"
The email before that one mentioned it.
73 ... Sid.

On 27/04/12 17:42, MIKE DURKIN wrote:
>
> I dont see just a "quisk_conf.py" .....
>
> Mike KC7NOA
>
> ---
> To: UHFSDR@yahoogroups.com
> From: sboyce@...
> Date: Fri, 27 Apr 2012 10:31:50 +0100
> Subject: Re: [UHFSDR] Quisk hardware model
>
> Mike,
> quisk_hardware_vk6jbl.py is the hardware model for both Softrock and
> UHFSDR.
>
> See the line "import quisk_hardware_vk6jbl as quisk_hardware" in
> ~/.quisk_conf.py.
> 73 ... Sid.
>
> On 27/04/12 10:13, Sid Boyce wrote:
>
> It's the same as for Softrock except for the si570 multiplier.
> Alex did come up with firmware for the SDR-Widget that allowed it
> to take x4 and interpret it as x2.
>
> For UHFSDR I have a script that set the eeprom in the si570 so we
> always get the x2 multiplier.
> ------------------- cut --------------------------
> #!/bin/sh
> usbsoftrock set si570_multiplier 0 0.5
> usbsoftrock set si570_multiplier 1 0.5
> usbsoftrock set si570_multiplier 2 0.5
> usbsoftrock set si570_multiplier 3 0.5
> usbsoftrock set si570_multiplier 4 0.5
> usbsoftrock set si570_multiplier 5 0.5
> usbsoftrock set si570_multiplier 6 0.5
> usbsoftrock set si570_multiplier 7 0.5
> usbsoftrock set si570_multiplier 8 0.5

> ------------------- cut ---------------------------
> These are per band settings.
> 73 ... Sid.
>
> On 27/04/12 07:24, MIKE DURKIN wrote:
>
>
> Any one have a Quisk hardware model for the UHFSDR and
> soundcard ??
>
> Mike KC7NOA
>
>
>
> --
> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
> Senior Staff Specialist, Cricket Coach
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Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
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891. Re: [UHFSDR] Quisk hardware model

Yahoo group: UHFSDR
Date: 2012-04-28 13:00:44 UTC
From: Sid Boyce
Topic: 878 Message: 891

A copy of my quisk-3.6.1/quisk_conf.py_for_Softrock-G3VBV file that
should be copied to your home directory as .quisk_conf.py
73 ... Sid.

On 28/04/12 00:24, MIKE DURKIN wrote:
>
> Is that the same file that I place the soundcard declarations?(its
> copy) or in HOME/quisk_def.py ....
>
> Mike KC7NOA
>
> -----Original Message-----
>
> From: Sid Boyce
> Sent: 27 Apr 2012 09:33:54 GMT
> To: UHFSDR@yahoogroups.com
> Subject: Re: [UHFSDR] Quisk hardware model
>
> Mike,
> quisk_hardware_vk6jbl.py is the hardware model for both Softrock and
> UHFSDR.
>
> See the line "import quisk_hardware_vk6jbl as quisk_hardware" in
> ~/.quisk_conf.py.
> 73 ... Sid.
>
> On 27/04/12 10:13, Sid Boyce wrote:
>
>> It's the same as for Softrock except for the si570 multiplier.
>> Alex did come up with firmware for the SDR-Widget that allowed it to
>> take x4 and interpret it as x2.
>>
>> For UHFSDR I have a script that set the eeprom in the si570 so we
>> always get the x2 multiplier.
>> ------------------- cut --------------------------
>> #!/bin/sh
>> usbsoftrock set si570_multiplier 0 0.5
>> usbsoftrock set si570_multiplier 1 0.5
>> usbsoftrock set si570_multiplier 2 0.5
>> usbsoftrock set si570_multiplier 3 0.5
>> usbsoftrock set si570_multiplier 4 0.5
>> usbsoftrock set si570_multiplier 5 0.5
>> usbsoftrock set si570_multiplier 6 0.5
>> usbsoftrock set si570_multiplier 7 0.5
>> usbsoftrock set si570_multiplier 8 0.5

>> ------------------- cut ----------------------------
>> These are per band settings.
>> 73 ... Sid.
>>
>> On 27/04/12 07:24, MIKE DURKIN wrote:
>>
>>> Any one have a Quisk hardware model for the UHFSDR and soundcard ??
>>>
>>> Mike KC7NOA
>>
>>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
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892. New file uploaded to UHFSDR

Yahoo group: UHFSDR
Date: 2012-04-28 13:16:45 UTC
From: UHFSDR@yahoogroups.com
Topic: 2 Message: 892

```
Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the UHFSDR
group.

File : /quisk-3.6.1_G3VBV.tar.bz2
Uploaded by : priddix <sboyce@...>
Description : Modified quisk-3.6.1 instructions inside

You can access this file at the URL:
http://groups.yahoo.com/group/UHFSDR/files/quisk-3.6.1_G3VBV.tar.bz2

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

priddix <sboyce@...>
```

893. Re: [UHFSDR] Quisk hardware model

Yahoo group: UHFSDR
Date: 2012-04-28 13:21:15 UTC
From: Sid Boyce
Topic: 878 Message: 893

I uploaded quisk-3.6.1_G3VBV.tar.bz2 to the files area.
Instructions and config files are in the quisk-3.6.1 directory after the
.tar.bz2 file has been expanded.
73 ... Sid.

On 28/04/12 14:00, Sid Boyce wrote:
>
> A copy of my quisk-3.6.1/quisk_conf.py_for_Softrock-G3VBV file that
> should be copied to your home directory as .quisk_conf.py
> 73 ... Sid.
>
> On 28/04/12 00:24, MIKE DURKIN wrote:
>
>> Is that the same file that I place the soundcard declarations?(its
>> copy) or in HOME/quisk_def.py ....
>>
>> Mike KC7NOA
>>
>> -----Original Message-----
>>
>> From: Sid Boyce
>> Sent: 27 Apr 2012 09:33:54 GMT
>> To: UHFSDR@yahoogroups.com
>> Subject: Re: [UHFSDR] Quisk hardware model
>>
>> Mike,
>> quisk_hardware_vk6jbl.py is the hardware model for both Softrock and
>> UHFSDR.
>>
>> See the line "import quisk_hardware_vk6jbl as quisk_hardware" in
>> ~/.quisk_conf.py.
>> 73 ... Sid.
>>
>> On 27/04/12 10:13, Sid Boyce wrote:
>>
>>> It's the same as for Softrock except for the si570 multiplier.
>>> Alex did come up with firmware for the SDR-Widget that allowed it to
>>> take x4 and interpret it as x2.
>>>
>>> For UHFSDR I have a script that set the eeprom in the si570 so we
>>> always get the x2 multiplier.
>>> ------------------- cut ---------------------------
>>> #!/bin/sh
>>> usbsoftrock set si570_multiplier 0 0.5
>>> usbsoftrock set si570_multiplier 1 0.5

```
>>> usbsoftrock set si570_multiplier 2 0.5
>>> usbsoftrock set si570_multiplier 3 0.5
>>> usbsoftrock set si570_multiplier 4 0.5
>>> usbsoftrock set si570_multiplier 5 0.5
>>> usbsoftrock set si570_multiplier 6 0.5
>>> usbsoftrock set si570_multiplier 7 0.5
>>> usbsoftrock set si570_multiplier 8 0.5
>>> ------------------- cut ----------------------------
>>> These are per band settings.
>>> 73 ... Sid.
>>>
>>> On 27/04/12 07:24, MIKE DURKIN wrote:
>>>
>>>> Any one have a Quisk hardware model for the UHFSDR and soundcard ??
>>>>
>>>> Mike KC7NOA
>>>
>>>
>
> --
> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
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>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks
```

894. Re: [UHFSDR] Si570 exact part number

Yahoo group: UHFSDR
Date: 2012-04-28 21:57:52 UTC
From: Jim Brennan
Topic: 883 Message: 894

Dave,

You covered all my questions and then some, thanks. Good idea using 19.982 MHz as default to help with board bring-up.

Jim
KJ6VRI (new ticket after 49 years of being off the air)

--- On Fri, 4/27/12, Dave <dave@...> wrote:

From: Dave <dave@...>
Subject: Re: [UHFSDR] Si570 exact part number
To: UHFSDR@yahoogroups.com
Date: Friday, April 27, 2012, 11:54 PM

Jim:
  There is no call out on the schematic. The output enable is not controlled by any of the software that I know of. H2 on the UHFSDR can be set for either enable polarity. Either leave open or connect pins 1 and 2 for active high. Connect pins 2 and 3 if active low. This could be computer controlled, although I don't know of anyone who has done so. The default Output Enable selection is fine.
  The IQ generation requires drivers with both Q and /Q outputs. That means LVDS, LVPECL. CMOS will not work. I recommend LVPECL.
  The frequency grade depends on the maximum frequency(which is 1/2 of the Si570 freq) you want the UHFSDR to work at. You only need the expensive A grade if you want to operate at 70 cm and above.
  The default frequency is up to you. I picked 19.982 MHz because I use PowerSDR-IQ which has a 9 KHz offset from center. With the divide by 2, the LO will be at 9.991MHz, which is 9 KHz from WWV at 10 MHz making it possible to check the UHFSDR without programming the Si570. If you have a favorite frequency, pick 2X that frequency.

Dave - WB6DHW
<http://wb6dhw.com>

On 4/27/2012 5:42 PM, Jim wrote:

In researching the Silicon Labs website order page for Si570 I find that it requires entry of several parameters to define the exact part number. Does someone know if there is a specification callout on the UHFSDR schematic that defines U14 required parmeters? I ask this question because the Output Enable selection defaults to active high, but I don't know whether the available control software requires the enable to be active high or low. How about the tolerance, is +-20ppm required?

Thanks
Jim Brennan
KJ6VRI

895. U14

Yahoo group: UHFSDR
Date: 2012-04-29 12:38:06 UTC
From: Chris
Topic: 895 Message: 895

Hi I am just about to fit U14 Si570 to my board
and would like to know which way round it goes
cheers Chris

896. Re: [UHFSDR] U14

Yahoo group: UHFSDR
Date: 2012-04-29 14:46:15 UTC
From: Sid Boyce
Topic: 895 Message: 896

On 29/04/12 13:38, Chris wrote:
>
> Hi I am just about to fit U14 Si570 to my board
> and would like to know which way round it goes
> cheers Chris
>

If you are looking at the board from the side where H1, H3 and H2 are nearest you, with the si570 on the board, you would be reading the print, i.e

```
|---------------|
|SiLabs 570 |
|Axxxxxxx |
|---------------|

H2
ooo
```

You are looking from this side.
Hope that helps
73 ... Sid.

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

897. RE: [UHFSDR] U14

Yahoo group: UHFSDR
Date: 2012-04-29 15:09:31 UTC
From: MIKE DURKIN
Topic: 895 Message: 897

Right like this ..

<http://groups.yahoo.com/group/UHFSDR/photos/album/1029525331/pic/1324283369/view?picmode=original&mode=tn&order=ordinal&start=1&dir=asc>

Mike

-----Original Message-----

From: Chris
Sent: 29 Apr 2012 12:38:10 GMT
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] U14

Hi I am just about to fit U14 Si570 to my board
and would like to know which way round it goes
cheers Chris

898. Si570's

Yahoo group: UHFSDR
Date: 2012-04-30 20:36:08 UTC
From: The Silver Fox
Topic: 306 Message: 898

Good news. The Si570's have arrived. I can now satisfy orders for the si570's or the UHFSDR full kits.

73,

Alan - W6ARH

899. Dayton

Yahoo group: UHFSDR
Date: 2012-05-02 23:39:19 UTC
From: brainerdd
Topic: 899 Message: 899

I will be going to Dayton for the first time after being a ham for 49 years! Also, I will be giving a presentation on the UHFSDR at the ARRL DIY stage on Sat. at 3pm.

Dave - WB6DHW
<http://wb6dhw.com>

900. SEAPAC

Yahoo group: UHFSDR
Date: 2012-05-02 23:40:29 UTC
From: brainerdd
Topic: 900 Message: 900

I will be going to SEAPAC for the first time and will be giving a presentation on UHFSDR on Friday.

Dave - WB6DHW
<http://wb6dhw.com>

901. Re: [UHFSDR] SEAPAC

Yahoo group: UHFSDR
Date: 2012-05-02 23:50:29 UTC
From: Bill Vodall
Topic: 900 Message: 901

> I will be going to SEAPAC for the first time and will be giving a
> presentation on UHFSDR on Friday.
>
> Dave - WB6DHW

The workshop Friday looks to be very interesting and educational...

http://www.seapac.org/workshop.htm

See you there Dave....

73
Bill - WA7NWP

902. RE: [UHFSDR] Dayton

Yahoo group: UHFSDR
Date: 2012-05-03 00:31:22 UTC
From: MIKE DURKIN
Topic: 899 Message: 902

Wish I could go ....
The Spokane hamfest is just down the road from me and I miss that one some times too....

Mike KC7NOA

-----Original Message-----

From: brainerdd
Sent: 2 May 2012 23:39:24 GMT
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Dayton

I will be going to Dayton for the first time after being a ham for 49 years! Also, I will be giving a presentation on the UHFSDR at the ARRL DIY stage on Sat. at 3pm.

Dave - WB6DHW
<http://wb6dhw.com>

903. Re: [UHFSDR] Dayton

Yahoo group: UHFSDR
Date: 2012-05-03 00:58:14 UTC
From: Dave
Topic: 899 Message: 903

Mike:
I plan on going to the Spokane hamfest this year also. We have gone the last 2 years. Didn't go to the Idaho Hamfest in Boise this year because it was too close to Dayton. It is about a 4 hour drive for us to Spokane.
We will be driving to Spokane on Sunday, May 13. Then will catch the Amtrak (at 1:30AM) to Chicago. We will get a rental car in Chicago and drive the 300 miles to Dayton.
Do you get on the Moscow .82 repeater(or the 147.24 on Mica Pk that is linked to it)? Barbara(KF7LGL) and I check into a couple of nets on .82.

Dave - WB6DHW
<http://wb6dhw.com>

On 5/2/2012 5:31 PM, MIKE DURKIN wrote:
>
> Wish I could go ....
> The Spokane hamfest is just down the road from me and I miss that one
> some times too....
>
> Mike KC7NOA
>
> -----Original Message-----
>
> From: brainerdd
> Sent: 2 May 2012 23:39:24 GMT
> To: UHFSDR@yahoogroups.com
> Subject: [UHFSDR] Dayton
>
> I will be going to Dayton for the first time after being a ham for 49
> years! Also, I will be giving a presentation on the UHFSDR at the ARRL
> DIY stage on Sat. at 3pm.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
>
>

904. Re: [UHFSDR] Dayton

Yahoo group: UHFSDR
Date: 2012-05-03 03:01:04 UTC
From: MIKE DURKIN
Topic: 899 Message: 904

Should now ... iv got a radio that Tx 40w ... needs to have a ccts installed still

-----Original Message-----

From: Dave
Sent: 3 May 2012 00:58:29 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Dayton

Mike:
I plan on going to the Spokane hamfest this year also. We have gone
the last 2 years. Didn't go to the Idaho Hamfest in Boise this year
because it was too close to Dayton. It is about a 4 hour drive for us
to Spokane.
We will be driving to Spokane on Sunday, May 13. Then will catch the
Amtrak (at 1:30AM) to Chicago. We will get a rental car in Chicago and
drive the 300 miles to Dayton.
Do you get on the Moscow .82 repeater(or the 147.24 on Mica Pk that
is linked to it)? Barbara(KF7LGL) and I check into a couple of nets on
.82.

Dave - WB6DHW
<http://wb6dhw.com>

On 5/2/2012 5:31 PM, MIKE DURKIN wrote:
>
> Wish I could go ....
> The Spokane hamfest is just down the road from me and I miss that one
> some times too....
>
> Mike KC7NOA
>
> -----Original Message-----
>
> From: brainerdd
> Sent: 2 May 2012 23:39:24 GMT
> To: UHFSDR@yahoogroups.com
> Subject: [UHFSDR] Dayton
>
> I will be going to Dayton for the first time after being a ham for 49
> years! Also, I will be giving a presentation on the UHFSDR at the ARRL
> DIY stage on Sat. at 3pm.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>

>
>

905. looking to use UHFSDR for education purpose

Yahoo group: UHFSDR
Date: 2012-05-07 22:34:21 UTC
From: tomshong
Topic: 905 Message: 905

Hi all,

I am trying to learn about the principles of RF/wireless communication systems, on my own. I am looking to find a job in that field, but while I have the theoretical background from my schooling, but I lack the hand on experience. I figured, in this economy, if I can't find a job gaining the experience, than I should try gain the experience on my own time and dime.

I'm wondering if playing with UHFSDR can be a good learning tool for my education needs.

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I understand this is an amateur radio. As I do not have an amateur license yet, if this SDR does suits my needs, I plan to study up and get the license so I can undertake the said effort.

But before I start investing the time and money to undertake my self-guided journey, I am wondering, has anyone here tested out the RF performance of the board using a spectrum analyzer? and since I don't have any high end test equipment, can anyone tell me if it's feasible to test out its performance with the USB based solution I mentioned earlier?

Tom

906. RE: [UHFSDR] looking to use UHFSDR for education purpose

Yahoo group: UHFSDR
Date: 2012-05-07 22:58:26 UTC
From: MIKE DURKIN
Topic: 905 Message: 906

Didn't you ask this question this morning on SoftRock40?

Mike KC7NOA

-----Original Message-----

From: tomshong
Sent: 7 May 2012 22:34:27 GMT
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] looking to use UHFSDR for education purpose

Hi all,

I am trying to learn about the principles of RF/wireless communication systems, on my own. I am looking to find a job in that field, but while I have the theoretical background from my schooling, but I lack the hand on experience. I figured, in this economy, if I can't find a job gaining the experience, than I should try gain the experience on my own time and dime.

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Tom

907. Re: [UHFSDR] looking to use UHFSDR for education purpose

Yahoo group: UHFSDR
Date: 2012-05-07 23:33:33 UTC
From: Sid Boyce
Topic: 905 Message: 907

It's not cheap but with your background the HiQSDR would go a long way as you would be dealing with the latest DDC/DUC SDR techniques, FPGA programming using Altera tools, studying the VHDL code which is quite readable as is the source code to the applications that allow it to be used as a transceiver, scope and VNA.
Check hiqsdr.org and http://dl2stg.de/stefan/hiqsdr/qsdr.html for the applications.
It's available as a kit and as a built unit.
73 ... Sid.

On 07/05/12 23:34, tomshong wrote:
>
> Hi all,
>
> I am trying to learn about the principles of RF/wireless communication
> systems, on my own. I am looking to find a job in that field, but
> while I have the theoretical background from my schooling, but I lack
> the hand on experience. I figured, in this economy, if I can't find a
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> and multi meter and signal generators. If needed I could afford a USB
> based spectrum/network analyzer such as one offered by Signal Hound
> for frequency/s-domain measurement., or get a National Instrument's
> MyDAQ student version.
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> I understand this is an amateur radio. As I do not have an amateur
> license yet, if this SDR does suits my needs, I plan to study up and
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> But before I start investing the time and money to undertake my
> self-guided journey, I am wondering, has anyone here tested out the RF
> performance of the board using a spectrum analyzer? and since I don't
> have any high end test equipment, can anyone tell me if it's feasible
> to test out its performance with the USB based solution I mentioned
> earlier?

>
> Tom
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

908. Re: [UHFSDR] looking to use UHFSDR for education purpose

Yahoo group: UHFSDR
Date: 2012-05-08 02:52:26 UTC
From: w9amr@aol.com
Topic: 905 Message: 908

Hi Mike

I think he is testing all the waters LOL probably not a bad thing. It does not appear to be spam. He is just trying to learn about all the options. and there are many!

Larry W9AMR

In a message dated 5/7/2012 6:58:31 P.M. Eastern Daylight Time, Patriot121@... writes:

Didn't you ask this question this morning on SoftRock40?

Mike KC7NOA

-----Original Message-----

From: tomshong
Sent: 7 May 2012 22:34:27 GMT
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] looking to use UHFSDR for education purpose

Hi all,

I am trying to learn about the principles of RF/wireless communication systems, on my own. I am looking to find a job in that field, but while I have the theoretical background from my schooling, but I lack the hand on experience. I figured, in this economy, if I can't find a job gaining the experience, than I should try gain the experience on my own time and dime.

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But before I start investing the time and money to undertake my self-guided journey, I am wondering, has anyone here tested out the RF performance of the board using a spectrum analyzer? and since I don't have any high end test equipment, can anyone tell me if it's feasible to test out its performance with the USB based solution I mentioned earlier?

Tom

909. Re: looking to use UHFSDR for education purpose

Yahoo group: UHFSDR
Date: 2012-05-08 03:19:03 UTC
From: tomshong
Topic: 905 Message: 909

Yes, I am indeed trying to explore different options. Actually Dave Brainerd referred me to ask my questions here when I emailed him.

I have a MSEE, but my studies was focused on RF IC design. But, the actual design jobs are hard to come by without the right network and/or experience. Quite frankly I don't know if I am up to be part of the rat race working in a high tech firm entails. So for six years I end up as a system engineer doing upgrades on B-1B bombers in Boeing, where I spent a lot of time pushing papers and managing supplier, far removed from circuits. My job was cut when they moved my department to Oklahoma City (I am in California).

So here's my tentative plan, and I welcome any comments. for me to get a better handle of the SDR, first I will need to build up some knowledge on programming. I did some programming when I was in school, but my focus was mostly on circuit and device theories.

So firstly I plan spend $20 on learning programming embedded systems using this:

http://www.computersciencelab.com/

Once I am comfortable with coding, then I will either buy and play with UHFSDR or Softrock SDR.

It looks like i'd need an expensive spectrum analyzer in order to measure RF things like IIP3 and SFDR and phase noise. My budget will limit me to using Signal Hound or NI's MyDAQ. that is, if the board has test points for me to measure those things.

If I can not measuring RF parameters because of test tool limitation, then it looks like the best thing I can learn from playing with the SDRs is probably on the software domain; tweak the micro controller, FPGA, DSP etc.

If you guys recommend a good way to learn about FPGA/DSP/uC using these SDR boards, or if there's some simple tutorials out there, please let me know.

Also, is there any kind of portable cheap antenna that suits my needs? preferably something indoor so I don't need to put on the roof.

Thanks.

Tom

--- In UHFSDR@yahoogroups.com, w9amr@... wrote:
>
> Hi Mike
>
> I think he is testing all the waters LOL probably not a bad thing. It does
> not appear to be spam. He is just trying to learn about all the options.
> and there are many!
>
> Larry W9AMR

>
>
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> In a message dated 5/7/2012 6:58:31 P.M. Eastern Daylight Time,
> Patriot121@... writes:
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> Didn't you ask this question this morning on SoftRock40?
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> Mike KC7NOA
>
> -----Original Message-----
>
> From: tomshong
> Sent: 7 May 2012 22:34:27 GMT
> To: UHFSDR@yahoogroups.com
> Subject: [UHFSDR] looking to use UHFSDR for education purpose
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> But before I start investing the time and money to undertake my
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> the board using a spectrum analyzer? and since I don't have any high end
> test equipment, can anyone tell me if it's feasible to test out its
> performance with the USB based solution I mentioned earlier?
>
> Tom
>

910. Re: looking to use UHFSDR for education purpose

Yahoo group: UHFSDR
Date: 2012-05-10 00:17:38 UTC
From: tomshong
Topic: 905 Message: 910

I've posted the same question on the softrockSDR group.

I can use some help with brainstorming some new ideas. if my goal is to get enough hands on practice so I'd be qualified for a job such as this one below (they are not hiring right now), what kind of things can I do with the UHFSDR with the resources readily available?

Is it possible to analyze the hardware? or do something with the software that will brush me up on C programming or concept with DSP?

I guess I am just looking to hear what everyone's experience is like with the SDR, and what they have done to build up their technical competency using this SDR.

Tom

From:
Sent:
To: Tom Hong
Subject: RE: EXT :looking for career opportunity with NGC

Let's keep in touch for the future. Right now that group is not hiring. We lost AMF JTRS funding from Lockheed and the government and had some layoffs recently. Hopefully we get a win soon.

Good luck to you.

Nick

Design, development, test and integration support for advanced RF/Electronic hardware including transceivers, power amplifiers and antenna system products for military electronics system applications within HF/VHF/UHF/L/S/X/Ku and Ka Bands.

Work within a multi-discipline integrated product team environment.

Basic Qualifications:

Candidate must have X years of experience with analog and RF/microwave design.

Familiarity RF/Microwave engineering concepts:

RF architecture and system design including frequency planning, design partitioning, link and gain analysis, and electromagnetic effects.

Microstrip, coplanar waveguide or stripline implemented in RF PWB, LTCC and/or MMIC/RFIC technology.

Device modeling and characterization.

Design of filters, amplifiers, LNAs, PAs, mixers, VCOs, PLLs and synthesizers, power detectors and ADC/DAC technology.

Antenna design experience a plus.

Lab experience with test, measurement and integration of RF hardware and familiarity with common RF/Analog lab test equipment.

Tools / Software Knowledge:

Experience with AWR Microwave Office, Sonnet EM, Ansoft HFSS, PSPICE, HSPICE, Matlab, Labview, AutoCAD, Schematic Capture Tools.

BS/MS: EE or Physics

--- In UHFSDR@yahoogroups.com, "tomshong" <tomshong@...> wrote:
>
> Yes, I am indeed trying to explore different options. Actually Dave Brainerd referred me to ask my questions here when I emailed him.
>
> I have a MSEE, but my studies was focused on RF IC design. But, the actual design jobs are hard to come by without the right network and/or experience. Quite frankly I don't know if I am up to be part of the rat race working in a high tech firm entails. So for six years I end up as a system engineer doing upgrades on B-1B bombers in Boeing, where I spent a lot of time pushing papers and managing supplier, far removed from circuits. My job was cut when they moved my department to Oklahoma City (I am in California).
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>
> Thanks.
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> Tom

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> --- In UHFSDR@yahoogroups.com, w9amr@ wrote:
> >
> > Hi Mike
> >
> > I think he is testing all the waters LOL probably not a bad thing. It does
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> > Larry W9AMR
> >
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> > In a message dated 5/7/2012 6:58:31 P.M. Eastern Daylight Time,
> > Patriot121@ writes:
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> >
> >
> >
> > Didn't you ask this question this morning on SoftRock40?
> >
> > Mike KC7NOA
> >
> > -----Original Message-----
> >
> > From: tomshong
> > Sent: 7 May 2012 22:34:27 GMT
> > To: UHFSDR@yahoogroups.com
> > Subject: [UHFSDR] looking to use UHFSDR for education purpose
> >
> >
> >
> >
> >
> >
> > Hi all,
> >
> > I am trying to learn about the principles of RF/wireless communication
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> > test equipment, can anyone tell me if it's feasible to test out its
> > performance with the USB based solution I mentioned earlier?
> >
> > Tom
> >
>

911. Delayed shipping

Yahoo group: UHFSDR
Date: 2012-05-10 03:54:19 UTC
From: brainerdd
Topic: 911 Message: 911

I will be leaving for Dayton on Sunday, May 13th. Any orders received after noon on Friday will not be shipped until May 25th.

Dave - WB6DHW
<http://wb6dhw.com>

912. 1.5KW diplexer

Yahoo group: UHFSDR
Date: 2012-05-10 03:56:03 UTC
From: brainerdd
Topic: 912 Message: 912

Delivery of the HPLPF (1.5KW diplexer) boards are expected on Friday.

Dave - WB6DHW
<http://wb6dhw.com>

913. Si570 kits

Yahoo group: UHFSDR
Date: 2012-05-10 03:57:06 UTC
From: brainerdd
Topic: 877 Message: 913

I received a shipment of 200 Si570 boards today.

Dave - WB6DHW
<http://wb6dhw.com>

914. Re: [UHFSDR] Si570 kits

Yahoo group: UHFSDR
Date: 2012-05-13 01:06:32 UTC
From: Jim Sanford
Topic: 877 Message: 914

Dave:
What do these boards do?
Thanks & 73,
jim
wb4gcs@...

On 5/9/2012 11:57 PM, brainerdd wrote:
>
> I received a shipment of 200 Si570 boards today.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
>

915. Re: [UHFSDR] Si570 kits

Yahoo group: UHFSDR
Date: 2012-05-13 01:24:57 UTC
From: Dave
Topic: 877 Message: 915

Jim:

The PCB holds an Si570 or any standard 3 X 5mm oscillator, has on board 3.3V regulator with power dropping resister, and a GTL2002 level converter for the I2L. Also, has footprints for 2 sma output connectors. Requires an external controller for the Si570. In the early Softrock days(before on board Si570) I sold about 600 of these kits.

Dave - WB6DHW
<http://wb6dhw.com>

On 5/12/2012 6:06 PM, Jim Sanford wrote:
>
> Dave:
> What do these boards do?
> Thanks & 73,
> jim
> wb4gcs@...
>
>
> On 5/9/2012 11:57 PM, brainerdd wrote:
>
>> I received a shipment of 200 Si570 boards today.
>>
>> Dave - WB6DHW
>> <http://wb6dhw.com>
>>
>

916. Re: [UHFSDR] Si570 kits

Yahoo group: UHFSDR
Date: 2012-05-13 01:38:39 UTC
From: Jim Sanford
Topic: 877 Message: 916

Thanks.
Thinking about turning one into a signal generator. Lack of external reference is a deterrent.....Will keep thinking about it.
73.
Jim
wb4gcs@...

On 5/12/2012 9:24 PM, Dave wrote:
>
> Jim:
>
> The PCB holds an Si570 or any standard 3 X 5mm oscillator, has on
> board 3.3V regulator with power dropping resister, and a GTL2002 level
> converter for the I2L. Also, has footprints for 2 sma output
> connectors. Requires an external controller for the Si570. In the
> early Softrock days(before on board Si570) I sold about 600 of these kits.
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> Dave - WB6DHW
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> On 5/12/2012 6:06 PM, Jim Sanford wrote:
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>> Dave:
>> What do these boards do?
>> Thanks & 73,
>> jim
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>>
>> On 5/9/2012 11:57 PM, brainerdd wrote:
>>
>>> I received a shipment of 200 Si570 boards today.
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>>> Dave - WB6DHW
>>> <http://wb6dhw.com>
>>>
>
>

917. Re: [UHFSDR] Si570 kits

Yahoo group: UHFSDR
Date: 2012-05-13 03:35:33 UTC
From: Dave
Topic: 877 Message: 917

Jim:
The Si570 has an internal reference. You could use a 2nd Si570 board
with a fixed freq XTAL oscillator on it instead of an Si570.

Dave - WB6DHW
<http://wb6dhw.com>

On 5/12/2012 6:38 PM, Jim Sanford wrote:
>
> Thanks.
> Thinking about turning one into a signal generator. Lack of external
> reference is a deterrent.....Will keep thinking about it.
> 73.
> Jim
> wb4gcs@...
>
>
> On 5/12/2012 9:24 PM, Dave wrote:
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>> Jim:
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>>>>
>>
>

919. Assembly

Yahoo group: UHFSDR
Date: 2012-05-20 13:22:48 UTC
From: Vlad
Topic: 919 Message: 919

I have question about assembly manual.
Step 45. In instruction voltage in H1-3 must be < 0.5V, but I found
0.82V this is normal?

Instruction My Board
32. Apply 10 to 15V to P1-1, Ground to P1-2
33. Verify TP3 > 2.55V 3.26V
34. Verify TP2 > 2.55V 3.26V
35. Temporally ground H1-3
36. Verify TP2 < 0.5V 0
37. Verify TP3 > 2.55V 3.26V
38. Temporally ground H1-4
39. Verify TP3 < 0.5V 0
40. Verify TP2 <0.5V 0
41. Remove ground from H1-3
42. Verify TP2 > 2.55V 3.26V
43. Verify TP3 < 0.5V 0
44. Temporally ground TP2
45.Verify H1-3 < 0.5V 0.82V

--
Best regards! 73!

UT4UKW
Vladislav Melnichenko
Kiev Ukraine
www.ut4ukw.com

920. RE: [UHFSDR] Assembly

Yahoo group: UHFSDR
Date: 2012-05-20 15:23:20 UTC
From: MIKE DURKIN
Topic: 919 Message: 920

Should be ok ... your just checking bidirectional switching of the level converter

-----Original Message-----

From: Vlad
Sent: 20 May 2012 13:23:00 GMT
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Assembly

I have question about assembly manual.
Step 45. In instruction voltage in H1-3 must be < 0.5V, but I found
0.82V this is normal?

Instruction My Board
32. Apply 10 to 15V to P1-1, Ground to P1-2
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36. Verify TP2 < 0.5V 0
37. Verify TP3 > 2.55V 3.26V
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39. Verify TP3 < 0.5V 0
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41. Remove ground from H1-3
42. Verify TP2 > 2.55V 3.26V
43. Verify TP3 < 0.5V 0
44. Temporally ground TP2
45.Verify H1-3 < 0.5V 0.82V

--
Best regards! 73!

UT4UKW
Vladislav Melnichenko
Kiev Ukraine
www.ut4ukw.com

921. Re: [UHFSDR] Assembly

Yahoo group: UHFSDR
Date: 2012-05-20 21:28:16 UTC
From: Vlad
Topic: 919 Message: 921

Before step 45 all ok... I'll continue...
Tnx

> Should be ok ... your just checking bidirectional switching of the level
> converter
>

922. Re: [UHFSDR] Assembly

Yahoo group: UHFSDR
Date: 2012-05-21 00:17:14 UTC
From: Dave
Topic: 919 Message: 922

On 5/20/2012 6:22 AM, Vlad wrote:
>
> I have question about assembly manual.
> Step 45. In instruction voltage in H1-3 must be < 0.5V, but I found
> 0.82V this is normal?
>
This is OK reading.

Dave - WB6DHW
<http://wb6dhw.com>
>
> Insruction My Board
> 32. Apply 10 to 15V to P1-1, Ground to P1-2
> 33. Verify TP3 > 2.55V 3.26V
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> 36. Verify TP2 < 0.5V 0
> 37. Verify TP3 > 2.55V 3.26V
> 38. Temporally ground H1-4
> 39. Verify TP3 < 0.5V 0
> 40. Verify TP2 <0.5V 0
> 41. Remove ground from H1-3
> 42. Verify TP2 > 2.55V 3.26V
> 43. Verify TP3 < 0.5V 0
> 44. Temporally ground TP2
> 45.Verify H1-3 < 0.5V 0.82V
>
> --
> Best regards! 73!
> ---
> UT4UKW
> Vladislav Melnichenko
> Kiev Ukraine
> www.ut4ukw.com
>
>

923. Running watter popping

Yahoo group: UHFSDR
Date: 2012-05-21 20:53:43 UTC
From: MIKE DURKIN
Topic: 923 Message: 923

Ok ... so its time to track down a noise that I would describe as running watter with louder popping. Its been present since I built my first UHFSDR. The second does not exhibit this - duh.

So are there any ideas on what might be causing it.

Also during Rx does the speaker out have the same audio as what goes to the line-in of the soundcard?

Are there any sdr software that can show the left and right channel (I & Q) simultaneously to help narrow down a components issue or a voltage rail issue..??..

Mike KC7NOA

924. Re: [UHFSDR] Running watter popping

Yahoo group: UHFSDR
Date: 2012-05-23 09:41:24 UTC
From: Dave
Topic: 923 Message: 924

Mike:
The speaker out has the same audio as the soundcard audio out, but only during receive.

Dave - WB6DHW
<http://wb6dhw.com>

On 5/21/2012 1:53 PM, MIKE DURKIN wrote:
>
> Ok ... so its time to track down a noise that I would describe as
> running watter with louder popping. Its been present since I built my
> first UHFSDR. The second does not exhibit this - duh.
> So are there any ideas on what might be causing it.
>
> Also during Rx does the speaker out have the same audio as what goes
> to the line-in of the soundcard?
>
> Are there any sdr software that can show the left and right channel (
> I & Q) simultaneously to help narrow down a components issue or a
> voltage rail issue..??..
>
> Mike KC7NOA
>
>

925. Re: Dayton

Yahoo group: UHFSDR
Date: 2012-05-23 10:58:39 UTC
From: Hank
Topic: 899 Message: 925

Dave,

How did your presentation at Dayton go? I really wanted to make it but was not able to.

73,
Hank
WZ3HMT

--- In UHFSDR@yahoogroups.com, "brainerdd" <dave@...> wrote:
>
> I will be going to Dayton for the first time after being a ham for 49 years! Also, I will be giving a presentation on the UHFSDR at the ARRL DIY stage on Sat. at 3pm.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>

926. Re: Dayton

Yahoo group: UHFSDR
Date: 2012-05-23 11:00:48 UTC
From: Hank
Topic: 899 Message: 926

Dave,

How did your presentation at Dayton go? I really wanted to make it but was not able to.

73,
Hank
WZ3HMT

--- In UHFSDR@yahoogroups.com, "brainerdd" <dave@...> wrote:
>
> I will be going to Dayton for the first time after being a ham for 49 years! Also, I will be giving a presentation on the UHFSDR at the ARRL DIY stage on Sat. at 3pm.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>

927. Re: [UHFSDR] Re: Dayton

Yahoo group: UHFSDR
Date: 2012-05-23 17:46:43 UTC
From: Dave
Topic: 899 Message: 927

Hank:
I think the presentation went quite well. Not perfect. I will
change a couple of things for the SEAPAC talk next week.

Dave - WB6DHW
<http://wb6dhw.com>

On 5/23/2012 3:58 AM, Hank wrote:
>
> Dave,
>
> How did your presentation at Dayton go? I really wanted to make it but
> was not able to.
>
> 73,
> Hank
> WZ3HMT
>

928. Re: [UHFSDR] Re: Dayton

Yahoo group: UHFSDR
Date: 2012-05-23 18:46:31 UTC
From: Bill Vodall
Topic: 899 Message: 928

> I think the presentation went quite well. Not perfect. I will change a
> couple of things for the SEAPAC talk next week.

Will there be hardware available for purchase at Seapac?

Bill

929. Re: [UHFSDR] Re: Dayton

Yahoo group: UHFSDR
Date: 2012-05-25 02:56:36 UTC
From: Dave
Topic: 899 Message: 929

Bill:
I will bring some PCB's and a few mini-kits.

Dave - WB6DHW
<http://wb6dhw.com>

On 5/23/2012 11:46 AM, Bill Vodall wrote:
>
> > I think the presentation went quite well. Not perfect. I will
> change a
> > couple of things for the SEAPAC talk next week.
>
> Will there be hardware available for purchase at Seapac?
>
> Bill
>
>

930. Common antenna/Seperate antenna

Yahoo group: UHFSDR
Date: 2012-05-29 01:42:51 UTC
From: rhillard@austin.rr.com
Topic: 930 Message: 930

How is the seperate antenna implimented? I see the option at H4, but it's implimentation in hardware is not obvious. Shouldn't there be another SMA connector on the board for this?

Bob WA6UFQ

931. Re: [UHFSDR] Common antenna/Seperate antenna

Yahoo group: UHFSDR
Date: 2012-05-29 01:54:10 UTC
From: Dave
Topic: 930 Message: 931

Bob:
The separate antennas connect to TP4 and TP5. I didn't have enough space to put in 2 more sma connectors. When using separate antennas, both switches in U7 are open.

Dave - WB6DHW
<http://wb6dhw.com>

On 5/28/2012 6:42 PM, rhillard@... wrote:
>
> How is the seperate antenna implimented? I see the option at H4, but
> it's implimentation in hardware is not obvious. Shouldn't there be
> another SMA connector on the board for this?
>
> Bob WA6UFQ
>
>
>

932. Re: Common antenna/Seperate antenna

Yahoo group: UHFSDR
Date: 2012-05-29 08:43:06 UTC
From: tony_g3ovh
Topic: 930 Message: 932

Bob

A word of caution which I previously posted in March. Beware there is no coupling capacitor so the DC leakage of a volt or so from the analogue switches is passed straight to the o/p when you use TP4 or 5 - fooled me at first with a DC coupled SWR bridge.

Tony

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> Bob:
> The separate antennas connect to TP4 and TP5. I didn't have enough
> space to put in 2 more sma connectors. When using separate antennas,
> both switches in U7 are open.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 5/28/2012 6:42 PM, rhillard@... wrote:
> >
> > How is the seperate antenna implimented? I see the option at H4, but
> > it's implimentation in hardware is not obvious. Shouldn't there be
> > another SMA connector on the board for this?
> >
> > Bob WA6UFQ
> >
> >
> >
>

933. SEAPAC

Yahoo group: UHFSDR
Date: 2012-05-31 06:25:44 UTC
From: brainerdd
Topic: 900 Message: 933

My SEAPAC talk on Friday on the UHFSDR has just been changed from 4pm to 11AM.
We are leaving Thursday morning for the 9 hour drive to Seaside.

Dave - WB6DHW
<http://wb6dhw.com>

934. SEAPAC presentation

Yahoo group: UHFSDR
Date: 2012-06-02 00:57:17 UTC
From: brainerdd
Topic: 934 Message: 934

A copy of the handout for my SEAPAC presentation is at
<www.wb6dhw.com/UHF-SDR/WB6DHW_DIY_Handout.doc>
A copy of the slides is at
<http://www.wb6dhw.com/UHF-SDR/UHFSDR.ppt>
Note that some computer display the schematic slides very poorly. The schematic slides are the UHFSDR schematic pages that are available from the UHFSDR section of the For_Sale page on the website.
I will add links to the presentation files when I return home on Monday(I don't have the software on the notebook).

Dave - WB6DHW
<http://wb6dhw.com>

935. 2M/6M/4M

Yahoo group: UHFSDR
Date: 2012-06-03 15:31:42 UTC
From: The Silver Fox
Topic: 935 Message: 935

There has been a lot of interest in these bands on other groups. Is it possible/hard to modify the UHFSDR to cover those bands?

73,

Alan - W6ARH

There is a special place - and nobody knows it but me.

936. Re: [UHFSDR] 2M/6M/4M

Yahoo group: UHFSDR
Date: 2012-06-03 16:25:26 UTC
From: Dave
Topic: 935 Message: 936

The UHFSDR covers 2M/6M/4M without modification. Suitable LPF's for the transmit and BPF for the receive would be required. The BPF board could be used on those bands with a filter re-design. My MPLPF board already has a 6M filter. a 2M and 4M lpf could replace 2 of the lower frequency filters.

Dave - WB6DHW
<http://wb6dhw.com>

On 6/3/2012 8:31 AM, The Silver Fox wrote:
>
> There has been a lot of interest in these bands on other groups. Is
> it possible/hard to modify the UHFSDR to cover those bands?
>
> 73,
>
> Alan -- W6ARH
>
> There is a special place - and nobody knows it but me.
>
>
>

937. Re: [UHFSDR] 2M/6M/4M

Yahoo group: UHFSDR
Date: 2012-06-03 16:37:51 UTC
From: MIKE DURKIN
Topic: 935 Message: 937

Iv tx'd ask locally on 2m ... need to find a helical filter for 70cm now ...

-----Original Message-----

From: Dave
Sent: 3 Jun 2012 16:24:20 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] 2M/6M/4M

The UHFSDR covers 2M/6M/4M without modification. Suitable LPF's for
the transmit and BPF for the receive would be required. The BPF board
could be used on those bands with a filter re-design. My MPLPF board
already has a 6M filter. a 2M and 4M lpf could replace 2 of the lower
frequency filters.

Dave - WB6DHW
<http://wb6dhw.com>

On 6/3/2012 8:31 AM, The Silver Fox wrote:
>
> There has been a lot of interest in these bands on other groups. Is
> it possible/hard to modify the UHFSDR to cover those bands?
>
> 73,
>
> Alan -- W6ARH
>
> There is a special place - and nobody knows it but me.
>
>
>

938. Re: [UHFSDR] 2M/6M/4M

Yahoo group: UHFSDR
Date: 2012-06-03 17:18:00 UTC
From: Oliver Goldenstein
Topic: 935 Message: 938

Hi !

i use this lna bpf for 70cm Satellite receiption:

http://www.dg0ve.de/LNA70_1_2010_001.pdf

73 Oliver DL6KBG
Am 03.06.2012 18:40 schrieb "MIKE DURKIN" <Patriot121@...>:

>
>
> Iv tx'd ask locally on 2m ... need to find a helical filter for 70cm now
> ...
>
> -----Original Message-----
>
> From: Dave
> Sent: 3 Jun 2012 16:24:20 GMT
> To: UHFSDR@yahoogroups.com
> Subject: Re: [UHFSDR] 2M/6M/4M
>
>
>
> The UHFSDR covers 2M/6M/4M without modification. Suitable LPF's for the
> transmit and BPF for the receive would be required. The BPF board could be
> used on those bands with a filter re-design. My MPLPF board already has a
> 6M filter. a 2M and 4M lpf could replace 2 of the lower frequency filters.
>
> Dave - WB6DHW
> <http://wb6dhw.com> <http://wb6dhw.com>
>
> On 6/3/2012 8:31 AM, The Silver Fox wrote:
>
>
>
> There has been a lot of interest in these bands on other groups. Is it
> possible/hard to modify the UHFSDR to cover those bands?
>
> 73,
>
> Alan – W6ARH
>
>
>
> There is a special place - and nobody knows it but me.
>

>
>
>
>
>
>
>

939. Re: [UHFSDR] 2M/6M/4M

Yahoo group: UHFSDR
Date: 2012-06-03 17:59:13 UTC
From: MIKE DURKIN
Topic: 935 Message: 939

That's neat and all .... but the pdf has no info on what BPF was used or part ##

-----Original Message-----

From: Oliver Goldenstein
Sent: 3 Jun 2012 17:18:03 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] 2M/6M/4M

Hi !

i use this lna bpf for 70cm Satellite receiption:

http://www.dg0ve.de/LNA70_1_2010_001.pdf

73 Oliver DL6KBG
Am 03.06.2012 18:40 schrieb "MIKE DURKIN" <Patriot121@...>:

>
>
> Iv tx'd ask locally on 2m ... need to find a helical filter for 70cm now
> ...
>
> -----Original Message-----
>
> From: Dave
> Sent: 3 Jun 2012 16:24:20 GMT
> To: UHFSDR@yahoogroups.com
> Subject: Re: [UHFSDR] 2M/6M/4M
>
>
>
> The UHFSDR covers 2M/6M/4M without modification. Suitable LPF's for the
> transmit and BPF for the receive would be required. The BPF board could be
> used on those bands with a filter re-design. My MPLPF board already has a
> 6M filter. a 2M and 4M lpf could replace 2 of the lower frequency filters.
>
> Dave - WB6DHW
> <http://wb6dhw.com> <http://wb6dhw.com>
>
> On 6/3/2012 8:31 AM, The Silver Fox wrote:
>
>
>
> There has been a lot of interest in these bands on other groups. Is it
> possible/hard to modify the UHFSDR to cover those bands?
>

> 73,
>
> Alan – W6ARH
>
>
>
> There is a special place - and nobody knows it but me.
>
>
>
>
>
>
>
>

940. Re: [UHFSDR] 2M/6M/4M

Yahoo group: UHFSDR
Date: 2012-06-03 18:42:03 UTC
From: Sid Boyce
Topic: 935 Message: 940

On the AQRP group NO5K has put up some notes and pictures of his UHFSDR2GO.

As Dave says for the UHFSDR LPF's and BPF's are all that are required
though I have a preference for transmitting BPF's to kill the 2 birds
with one stone for ham band only use.
73 ... Sid.

On 03/06/12 16:31, The Silver Fox wrote:
>
> There has been a lot of interest in these bands on other groups. Is
> it possible/hard to modify the UHFSDR to cover those bands?
>
> 73,
>
> Alan -- W6ARH
>
> There is a special place - and nobody knows it but me.
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

941. RE: [UHFSDR] Running watter popping

Yahoo group: UHFSDR
Date: 2012-06-04 20:35:24 UTC
From: MIKE DURKIN
Topic: 923 Message: 941

Ok ... I don't know what it was .... but it looks like it's gone.

I had swapped out the offending board (my first built) with the second I had built using my toaster oven.
I fugered It wouldnt hurt much to put the miss behaveing board in the toaster - lightly sprayed with liquid flux. I did think it a good idea to remove the micro coax that was placed on the bottom and the stereo connectors. They didn't look to be able withstand the heat of the toaster.

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Wed, 23 May 2012 02:41:24 -0700
Subject: Re: [UHFSDR] Running watter popping

Mike:

The speaker out has the same audio as the soundcard audio out, but only during receive.

Dave - WB6DHW

<http://wb6dhw.com>

On 5/21/2012 1:53 PM, MIKE DURKIN wrote:

Ok ... so its time to track down a noise that I would describe as running watter with louder popping. Its been present since I built my first UHFSDR. The second does not exhibit this - duh.

So are there any ideas on what might be causing it.

Also during Rx does the speaker out have the same audio as what goes to the line-in of the soundcard?

Are there any sdr software that can show the left and right channel (I & Q) simultaneously to help narrow down a components issue or a voltage rail issue..??..

Mike KC7NOA

942. Re: [UHFSDR] Running watter popping

Yahoo group: UHFSDR
Date: 2012-06-05 13:26:51 UTC
From: Sid Boyce
Topic: 923 Message: 942

My UHFSDR/Widget is on the net with dspserver and you can hear a pulsed tone.
It's powered by 13.8V --> LM338 providing the +5V.

I tried a ferrite ring on the lead to the Widget and got an even more horrible noise, then I tried just a 220nF cap across the lead which had no effect.

Later this evening I I'll try a larger ferrite ring + capacitor to see if I can clean it up.

If it's not that the other culprit could be the LCD which has a couple of turns on 3/4" diameter by 3/4" long ferrite ring, the same as I have done for the SR63ng/Mobo/Widget - to be investigated.

Has anyone else experienced similar?
73 ... Sid.

On 04/06/12 21:35, MIKE DURKIN wrote:
>
> Ok ... I don't know what it was .... but it looks like it's gone.
>
> I had swapped out the offending board (my first built) with the
> second I had built using my toaster oven.
> I fugered It wouldnt hurt much to put the miss behaveing board in the
> toaster - lightly sprayed with liquid flux. I did think it a good idea
> to remove the micro coax that was placed on the bottom and the stereo
> connectors. They didn't look to be able withstand the heat of the toaster.
>
> Mike KC7NOA
>
> ---
> To: UHFSDR@yahoogroups.com
> From: dave@...
> Date: Wed, 23 May 2012 02:41:24 -0700
> Subject: Re: [UHFSDR] Running watter popping
>
> Mike:
> The speaker out has the same audio as the soundcard audio out, but
> only during receive.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 5/21/2012 1:53 PM, MIKE DURKIN wrote:
>

> Ok ... so its time to track down a noise that I would describe as
> running watter with louder popping. Its been present since I built
> my first UHFSDR. The second does not exhibit this - duh.
> So are there any ideas on what might be causing it.
>
> Also during Rx does the speaker out have the same audio as what
> goes to the line-in of the soundcard?
>
> Are there any sdr software that can show the left and right
> channel (I & Q) simultaneously to help narrow down a components
> issue or a voltage rail issue..??..
>
> Mike KC7NOA
>
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

943. re:

Yahoo group: UHFSDR
Date: 2012-06-06 19:26:31 UTC
From: Tom
Topic: 943 Message: 943

wow this is amazing look into this http://www.finance15sonnews.net/biz/?employment=2399109

944. UHFSDR Sensitivity

Yahoo group: UHFSDR
Date: 2012-06-07 14:35:56 UTC
From: g.suggate
Topic: 944 Message: 944

I am using my UHFSDR on 70 mhz. By direct comparison with Transverters (28mhz to 70mhz) the sensitivity of SDR appears 10 to 15 db lower.
In fact no increase in noise is apparent when connecting an aerial.
I have checked the RX preamp which seems OK.
So is this normal ? or have I a problem somewhere else?
Many thanks in advance

Geoff G3NPI Buckingham UK

945. Re: UHFSDR Sensitivity

Yahoo group: UHFSDR
Date: 2012-06-08 07:53:48 UTC
From: Ed
Topic: 944 Message: 945

Hi Geoff,

Please see my post "UHFSDR Sensitivity Improvement", message number 714.

Regards Ed GM3SBC

--- In UHFSDR@yahoogroups.com, "g.suggate" <g.suggate@...> wrote:
>
> I am using my UHFSDR on 70 mhz. By direct comparison with Transverters (28mhz to 70mhz) the sensitivity of SDR appears 10 to 15 db lower.
> In fact no increase in noise is apparent when connecting an aerial.
> I have checked the RX preamp which seems OK.
> So is this normal ? or have I a problem somewhere else?
> Many thanks in advance
>
> Geoff G3NPI Buckingham UK
>

946. Re: UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-06-08 14:17:55 UTC
From: Michael
Topic: 714 Message: 946

Could some one take a picture of 1 installed in the UHFSDR for orientation reference?

Mike KC7NOA

--- In UHFSDR@yahoogroups.com, "Ed" <ed.murphy31@...> wrote:
>
> Hi Dave,
>
> (wrote a big reply and lost it so now out of time, short one !)
>
> Re DC Band operation:
>
> Using a VNA I check the gain response using the 100nH Inductor only and below 4 Mhz the gain was several tens of dBs down.
>
> I did not have any other suitable Inductors to hand so decided to insert a 47 ohm resistor in series with the 100nH Inductor.
>
> The SPF5043Z bias is now 3.6 volts from the 4.7 volts with the choke alone.
>
> Measuring from the J4 socket to C8 output.
>
> 1.5 Mhz to 150 Mhz Flat with a ripple of 0.43dB
> 150 Mhz to 432 Mhz rolling smoothly down by 10dB
> 432 Mhz to 700 Mhz Flat, ripple 1dB
>
> Results:
> 10 Mhz -145dBm
> 30 Mhz -145dBm
> 144Mhz -145dBm
> 220Mhz -143dBm
> 432Mhz -140dBm
>
> Could be useful now to have a couple of beta testers to check this confguration and possibly other Inductor arrangements should you be concerned about the gain flatness and IC bias requirement.
> ***Remember to check the IC pin out, the in and out are reversed***
> Regards
> Ed GM3SBC
>
>
>
>
>
> --- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@> wrote:

> >
> > Sounds like another instance of series set chokes, 100nH & 560nH and a 3.3uH ....
> >
> > Probably will look odd .....
> >
> > Mike KC7NOA
> >
> > To: UHFSDR@yahoogroups.com
> > From: dave@
> > Date: Wed, 22 Feb 2012 17:57:39 -0800
> > Subject: Re: [UHFSDR] UHFSDR Sensitivity Improvement
> >
> >
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> >
> >
> >
> > Ed:
> >
> > If you test the mmic at HF, you will need to increase the value of
> > the choke. 1uH will probably be OK to 10 MHz, 3.3 uH for lower.
> >
> >
> >
> > Dave - WB6DHW
> >
> > <http://wb6dhw.com>
> >
> >

> >
> > On 2/22/2012 1:15 PM, Ed wrote:
> >
> >
> >
> >
> > Hello All you UHFSDR lovers,
> >
> >
> >
> > I decided to do some further measurements of the MDS on my
> > UHFSDR.
> >
> >
> >
> > I started by measuring the UHFSDR unmodified in the
> > following set up conditions:
> >
> >
> >
> > Software: WRplus
> >
> > PC: ASPIRE One Net book
> >
> > Signal Generator: HP with additional Microwave
> > attenuators.
> >
> > Mode : CW
> >
> > Frequency: 144.300 Mhz
> >
> > Bandwidth: 500Hz
> >
> > AGC:Off
> >
> >
> >
> > The result for 1 dB signal above noise power : -133dBm.
> >
> >
> >
> > I then decided to change U4 (BGA612) to a different type
> > of MMIC, the SPF5043Z. This is a 50 Mhz to 4 Ghz part with
> > high dynamic range. It has a lower noise figure and higher
> > gain than the BGA612.
> >
> > The mod was simple, remove the BGA612, install the
> > SPF5043Z taking care to check the different orientation
> > and replace R3 (120 ohm)with a 100nH Inductor.
> >

> >
> >
> > The result for 1 dB signal above noise power : -145dBm
> >
> >
> >
> > So if you want a super sensitive VHF/UHF front end, you
> > got it !
> >
> >
> >
> > Only possible down side is that the IC starts to degrade
> > below 50 Mhz. It could still be adequate for the DC bands
> > if you really must use the UHFSDR for that purpose.
> >
> >
> >
> > What a remarkable little radio this is.
> >
> >
> >
> > Regards
> >
> >
> >
> > Ed GM3SBC
> >
>

947. Re: [UHFSDR] Re: Dayton

Yahoo group: UHFSDR
Date: 2012-06-08 21:40:51 UTC
From: Keenan Tims
Topic: 899 Message: 947

I though the list would be interested to know that Dave's talk has been posted on Youtube by the ARRL. Thanks for the presentation Dave.

http://www.youtube.com/watch?v=JqXCDbj577Q

Keenan VE7XEN

On 24 May 2012 19:56, Dave <dave@...> wrote:

> **
>
>
> Bill:
> I will bring some PCB's and a few mini-kits.
>
>
> Dave - WB6DHW
> <http://wb6dhw.com> <http://wb6dhw.com>
>
> On 5/23/2012 11:46 AM, Bill Vodall wrote:
>
>
>
> > I think the presentation went quite well. Not perfect. I will change
> a
> > couple of things for the SEAPAC talk next week.
>
> Will there be hardware available for purchase at Seapac?
>
> Bill
>
>
>
>

948. Re: [UHFSDR] Re: Dayton

Yahoo group: UHFSDR
Date: 2012-06-08 23:07:59 UTC
From: MIKE DURKIN
Topic: 899 Message: 948

What candy tin?
I like candy and an enclosure as a bonus!

BTY, sdr2go works ok for stand alone controller/sound ...

-----Original Message-----

From: Keenan Tims
Sent: 8 Jun 2012 21:40:55 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: Dayton

I though the list would be interested to know that Dave's talk has been
posted on Youtube by the ARRL. Thanks for the presentation Dave.

http://www.youtube.com/watch?v=JqXCDbj577Q

Keenan VE7XEN

On 24 May 2012 19:56, Dave <dave@...> wrote:

> **
>
>
> Bill:
> I will bring some PCB's and a few mini-kits.
>
>
> Dave - WB6DHW
> <http://wb6dhw.com> <http://wb6dhw.com>
>
> On 5/23/2012 11:46 AM, Bill Vodall wrote:
>
>
>
> > I think the presentation went quite well. Not perfect. I will change
> a
> > couple of things for the SEAPAC talk next week.
>
> Will there be hardware available for purchase at Seapac?
>
> Bill
>
>
>
>

949. Re: [UHFSDR] Re: Dayton

Yahoo group: UHFSDR
Date: 2012-06-08 23:17:09 UTC
From: Sid Boyce
Topic: 899 Message: 949

Dave shipped the UHFSDR with the candy tin, Alan does not.
I preferred to build mine in a larger box with the SDR-Widget with its
LCD display and room for a small amplifier and transmitting BPF's.

I think there is a picture of the UHFSDR in the tin, in the UHFSDR group
photos section and may be the docs package.
73 ... Sid.

On 09/06/12 00:07, MIKE DURKIN wrote:
>
> What candy tin?
> I like candy and an enclosure as a bonus!
>
> BTY, sdr2go works ok for stand alone controller/sound ...
>
> -----Original Message-----
>
> From: Keenan Tims
> Sent: 8 Jun 2012 21:40:55 GMT
> To: UHFSDR@yahoogroups.com
> Subject: Re: [UHFSDR] Re: Dayton
>
> I though the list would be interested to know that Dave's talk has
> been posted on Youtube by the ARRL. Thanks for the presentation Dave.
>
> http://www.youtube.com/watch?v=JqXCDbj577Q
>
> Keenan VE7XEN
>
> On 24 May 2012 19:56, Dave <dave@... <mailto:dave@...>>
> wrote:
>
> Bill:
> I will bring some PCB's and a few mini-kits.
>
>
>
> Dave - WB6DHW
> <http://wb6dhw.com> <http://wb6dhw.com>
>
> On 5/23/2012 11:46 AM, Bill Vodall wrote:
>>
>> > I think the presentation went quite well. Not perfect. I
>> will change a
>> > couple of things for the SEAPAC talk next week.

>>
>> Will there be hardware available for purchase at Seapac?
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>> Bill
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>>
>
>
>

--
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Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

950. Re: [UHFSDR] Re: Dayton

Yahoo group: UHFSDR
Date: 2012-06-08 23:26:11 UTC
From: MIKE DURKIN
Topic: 899 Message: 950

Sid, what amplifier do you like?

Iv been thinking of building one based on a push/pull 2n3866 ...

Mike KC7NOA

-----Original Message-----

From: Sid Boyce
Sent: 8 Jun 2012 23:17:49 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: Dayton

Dave shipped the UHFSDR with the candy tin, Alan does not.
I preferred to build mine in a larger box with the SDR-Widget with its
LCD display and room for a small amplifier and transmitting BPF's.

I think there is a picture of the UHFSDR in the tin, in the UHFSDR group
photos section and may be the docs package.
73 ... Sid.

On 09/06/12 00:07, MIKE DURKIN wrote:
>
> What candy tin?
> I like candy and an enclosure as a bonus!
>
> BTY, sdr2go works ok for stand alone controller/sound ...
>
> -----Original Message-----
>
> From: Keenan Tims
> Sent: 8 Jun 2012 21:40:55 GMT
> To: UHFSDR@yahoogroups.com
> Subject: Re: [UHFSDR] Re: Dayton
>
> I though the list would be interested to know that Dave's talk has
> been posted on Youtube by the ARRL. Thanks for the presentation Dave.
>
> http://www.youtube.com/watch?v=JqXCDbj577Q
>
> Keenan VE7XEN
>
> On 24 May 2012 19:56, Dave <dave@... <mailto:dave@...>>
> wrote:
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> Bill:
> I will bring some PCB's and a few mini-kits.

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> Dave - WB6DHW
> <http://wb6dhw.com> <http://wb6dhw.com>
>
> On 5/23/2012 11:46 AM, Bill Vodall wrote:
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>> > I think the presentation went quite well. Not perfect. I
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>> > couple of things for the SEAPAC talk next week.
>>
>> Will there be hardware available for purchase at Seapac?
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>> Bill
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>

--
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951. Re: [UHFSDR] Re: Dayton

Yahoo group: UHFSDR
Date: 2012-06-09 00:39:03 UTC
From: Sid Boyce
Topic: 899 Message: 951

I tried a 15W PA from an old transceiver project connected directly to the HMC482, it went into oscillation and it damaged the HMC482. I thought the PA was 50 ohm in/out but there must have been a mismatch so next go I'll put in a 3dB attenuator and feed a 1W preamp --> 5W PA and see how that goes.
The 15W PA includes a preamp so it only needs 23mV to drive it to full output.
All the above PA's worked for many years in the homebrew transceiver. I replaced the 5W and 100W with the 15W and drove a 200W solidstate PA.

I also have the K5BCQ 20W PA built and tested so I could use that UHFSDR --> 1W preamp --> 20W PA.

Too many projects on hand so I'll schedule a day when I attend to that.
There is also a second UHFSDR to be hooked up to a SDR2GO and test.
73 ... Sid.

On 09/06/12 00:26, MIKE DURKIN wrote:
>
> Sid, what amplifier do you like?
>
> Iv been thinking of building one based on a push/pull 2n3866 ...
>
> Mike KC7NOA
>
> -----Original Message-----
>
> From: Sid Boyce
> Sent: 8 Jun 2012 23:17:49 GMT
> To: UHFSDR@yahoogroups.com
> Subject: Re: [UHFSDR] Re: Dayton
>
> Dave shipped the UHFSDR with the candy tin, Alan does not.
> I preferred to build mine in a larger box with the SDR-Widget with its
> LCD display and room for a small amplifier and transmitting BPF's.
>
> I think there is a picture of the UHFSDR in the tin, in the UHFSDR
> group photos section and may be the docs package.
> 73 ... Sid.
>
> On 09/06/12 00:07, MIKE DURKIN wrote:
>>
>> What candy tin?
>> I like candy and an enclosure as a bonus!
>>
>> BTY, sdr2go works ok for stand alone controller/sound ...

>>
>> -----Original Message-----
>>
>> From: Keenan Tims
>> Sent: 8 Jun 2012 21:40:55 GMT
>> To: UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
>> Subject: Re: [UHFSDR] Re: Dayton
>>
>> I though the list would be interested to know that Dave's talk has
>> been posted on Youtube by the ARRL. Thanks for the presentation Dave.
>>
>> http://www.youtube.com/watch?v=JqXCDbj577Q
>>
>> Keenan VE7XEN
>>
>> On 24 May 2012 19:56, Dave <dave@... <mailto:dave@...>>
>> wrote:
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>> Bill:
>> I will bring some PCB's and a few mini-kits.
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>> Dave - WB6DHW
>> <http://wb6dhw.com> <http://wb6dhw.com>
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>> On 5/23/2012 11:46 AM, Bill Vodall wrote:
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>>> > I think the presentation went quite well. Not perfect. I
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>>>
>>> Will there be hardware available for purchase at Seapac?
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>>> Bill
>>>
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>
>
> --
> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
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>

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952. Re: [UHFSDR] Re: Dayton

Yahoo group: UHFSDR
Date: 2012-06-09 08:34:24 UTC
From: w9amr@aol.com
Topic: 899 Message: 952

Dave has a pic on his web page showing the UHFSDR in a Altiods type tin. I put mine in one when I first build it. It fits the tin nicely but not much room left.

Larry

In a message dated 6/8/2012 7:26:02 P.M. Eastern Daylight Time, Patriot121@... writes:

Sid, what amplifier do you like?

Iv been thinking of building one based on a push/pull 2n3866 ...

Mike KC7NOA

-----Original Message-----

From: Sid Boyce
Sent: 8 Jun 2012 23:17:49 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: Dayton

Dave shipped the UHFSDR with the candy tin, Alan does not.
I preferred to build mine in a larger box with the SDR-Widget with its LCD display and room for a small amplifier and transmitting BPF's.

I think there is a picture of the UHFSDR in the tin, in the UHFSDR group photos section and may be the docs package.
73 ... Sid.

On 09/06/12 00:07, MIKE DURKIN wrote:

What candy tin?
I like candy and an enclosure as a bonus!

BTY, sdr2go works ok for stand alone controller/sound ...

-----Original Message-----

From: Keenan Tims
Sent: 8 Jun 2012 21:40:55 GMT
To: _UHFSDR@yahoogroups.com_ (mailto:UHFSDR@yahoogroups.com)
Subject: Re: [UHFSDR] Re: Dayton

I though the list would be interested to know that Dave's talk has been posted on Youtube by the ARRL. Thanks for the presentation Dave.

http://www.youtube.com/watch?v=JqXCDbj577Q
(http://www.youtube.com/watch?v=JqXCDbj577Q)

Keenan VE7XEN

On 24 May 2012 19:56, Dave <_dave@..._ (mailto:dave@...) >
wrote:

Bill:
I will bring some PCB's and a few mini-kits.

Dave - WB6DHW
<http://wb6dhw.com> (http://wb6dhw.com/)

On 5/23/2012 11:46 AM, Bill Vodall wrote:

> I think the presentation went quite well. Not perfect. I will change
a
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Will there be hardware available for purchase at Seapac?

Bill

--

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953. Re: [UHFSDR] Re: Dayton

Yahoo group: UHFSDR
Date: 2012-06-09 14:10:46 UTC
From: MIKE DURKIN
Topic: 899 Message: 953

Ok ... thought I heard dave mention Altoids in the video but also say that another tin was used....

-----Original Message-----

From: w9amr@...
Sent: 9 Jun 2012 08:34:31 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: Dayton

Dave has a pic on his web page showing the UHFSDR in a Altiods type tin. I put mine in one when I first build it. It fits the tin nicely but not much room left.

Larry

In a message dated 6/8/2012 7:26:02 P.M. Eastern Daylight Time, Patriot121@... writes:

Sid, what amplifier do you like?

Iv been thinking of building one based on a push/pull 2n3866 ...

Mike KC7NOA

-----Original Message-----

From: Sid Boyce
Sent: 8 Jun 2012 23:17:49 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: Dayton

Dave shipped the UHFSDR with the candy tin, Alan does not.
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I think there is a picture of the UHFSDR in the tin, in the UHFSDR group photos section and may be the docs package.
73 ... Sid.

On 09/06/12 00:07, MIKE DURKIN wrote:

What candy tin?
I like candy and an enclosure as a bonus!

BTY, sdr2go works ok for stand alone controller/sound ...

-----Original Message-----

From: Keenan Tims
Sent: 8 Jun 2012 21:40:55 GMT
To: _UHFSDR@yahoogroups.com_ (mailto:UHFSDR@yahoogroups.com)
Subject: Re: [UHFSDR] Re: Dayton

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(http://www.youtube.com/watch?v=JqXCDbj577Q)

Keenan VE7XEN

On 24 May 2012 19:56, Dave <_dave@wb6dhw.com_ (mailto:dave@...) >
wrote:

Bill:
I will bring some PCB's and a few mini-kits.

Dave - WB6DHW
<http://wb6dhw.com> (http://wb6dhw.com/)

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> couple of things for the SEAPAC talk next week.

Will there be hardware available for purchase at Seapac?

Bill

--

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954. ADT1-1

Yahoo group: UHFSDR
Date: 2012-06-09 16:03:26 UTC
From: MIKE DURKIN
Topic: 954 Message: 954

Does any one have a ADT1-1 for sale less than what mini circuits single purchase price?

Mike KC7NOA

955. Re: [UHFSDR] Re: Dayton

Yahoo group: UHFSDR
Date: 2012-06-09 18:04:18 UTC
From: Dave
Topic: 899 Message: 955

Mike:
I bought the tins at
<http://www.papermart.com/Product%20Pages/Product.aspx?GroupID=20955&SubGroupID=20952&ParentGroupID=19037#20952
<http://www.papermart.com/Product%20Pages/Product.aspx?GroupID=20955&SubGroupID=20952&ParentGroupID=19037#20952>>
You have to buy 25 and don't get the pleasure of emptying them.

Dave - WB6DHW
http://wb6dhw.com>

On 6/8/2012 4:07 PM, MIKE DURKIN wrote:
>
> What candy tin?
> I like candy and an enclosure as a bonus!
>
> BTY, sdr2go works ok for stand alone controller/sound ...
>

956. Re: [UHFSDR] Re: Dayton

Yahoo group: UHFSDR
Date: 2012-06-09 18:53:40 UTC
From: MIKE DURKIN
Topic: 899 Message: 956

Sigh .... ya need to offer a full kit.

-----Original Message-----

From: Dave
Sent: 9 Jun 2012 18:06:37 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: Dayton

Mike:
I bought the tins at
<http://www.papermart.com/Product%20Pages/Product.aspx?GroupID=20955&SubGroupID=20952&ParentGroupID=19037#20952
<http://www.papermart.com/Product%20Pages/Product.aspx?GroupID=20955&SubGroupID=20952&ParentGroupID=19037#20952>>
You have to buy 25 and don't get the pleasure of emptying them.

Dave - WB6DHW
http://wb6dhw.com>

On 6/8/2012 4:07 PM, MIKE DURKIN wrote:
>
> What candy tin?
> I like candy and an enclosure as a bonus!
>
> BTY, sdr2go works ok for stand alone controller/sound ...
>

957. Re: [UHFSDR] Re: Dayton

Yahoo group: UHFSDR
Date: 2012-06-09 21:56:14 UTC
From: Sid Boyce
Topic: 899 Message: 957

alan.r.hill@... for full UHFSDR kits.
73 ... Sid.

On 09/06/12 19:53, MIKE DURKIN wrote:
>
> Sigh .... ya need to offer a full kit.
>
> -----Original Message-----
>
> From: Dave
> Sent: 9 Jun 2012 18:06:37 GMT
> To: UHFSDR@yahoogroups.com
> Subject: Re: [UHFSDR] Re: Dayton
>
> Mike:
> I bought the tins at
> <http://www.papermart.com/Product%20Pages/Product.aspx?GroupID=20955&SubGroupID=20952&Pa
rentGroupID=19037#20952>
> You have to buy 25 and don't get the pleasure of emptying them.
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> Dave - WB6DHW
> http://wb6dhw.com>
>
> On 6/8/2012 4:07 PM, MIKE DURKIN wrote:
>
>> What candy tin?
>> I like candy and an enclosure as a bonus!
>>
>> BTY, sdr2go works ok for stand alone controller/sound ...
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>

--
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958. Re: [UHFSDR] Re: Dayton

Yahoo group: UHFSDR
Date: 2012-06-09 22:59:54 UTC
From: MIKE DURKIN
Topic: 899 Message: 958

I know ... he dosent send the case though .... I seem to think I bought a bd and mini kit (maybe not the mini) .... Im looking for a case ....

I looked at the altoids a few hours ago ... its just too small. Then seen a makeup kit for kids ... 12$ ....

I don't know ....

-----Original Message-----

From: Sid Boyce
Sent: 9 Jun 2012 21:56:42 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: Dayton

alan.r.hill@... for full UHFSDR kits.
73 ... Sid.

On 09/06/12 19:53, MIKE DURKIN wrote:
>
> Sigh .... ya need to offer a full kit.
>
> -----Original Message-----
>
> From: Dave
> Sent: 9 Jun 2012 18:06:37 GMT
> To: UHFSDR@yahoogroups.com
> Subject: Re: [UHFSDR] Re: Dayton
>
> Mike:
> I bought the tins at
> <http://www.papermart.com/Product%20Pages/Product.aspx?GroupID=20955&SubGroupID=20952&ParentGroupID=19037#20952>
> You have to buy 25 and don't get the pleasure of emptying them.
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> Dave - WB6DHW
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>
> On 6/8/2012 4:07 PM, MIKE DURKIN wrote:
>
>> What candy tin?
>> I like candy and an enclosure as a bonus!
>>
>> BTY, sdr2go works ok for stand alone controller/sound ...
>>
>

>

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959. Re: [UHFSDR] Re: Dayton

Yahoo group: UHFSDR
Date: 2012-06-09 23:52:25 UTC
From: w9amr@aol.com
Topic: 899 Message: 959

The tin I have came from Hobby Lobby in the Crafts section. I doubt I paid more them 5 bucks for it.

Larry

In a message dated 6/9/2012 6:59:48 P.M. Eastern Daylight Time, Patriot121@... writes:

I know ... he dosent send the case though .... I seem to think I bought a bd and mini kit (maybe not the mini) .... Im looking for a case ....

I looked at the altoids a few hours ago ... its just too small. Then seen a makeup kit for kids ... 12$ ....

I don't know ....

-----Original Message-----

From: Sid Boyce
Sent: 9 Jun 2012 21:56:42 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: Dayton

alan.r.hill@... (mailto:alan.r.hill@...) for full UHFSDR kits.
73 ... Sid.

On 09/06/12 19:53, MIKE DURKIN wrote:

Sigh .... ya need to offer a full kit.

-----Original Message-----

From: Dave
Sent: 9 Jun 2012 18:06:37 GMT
To: _UHFSDR@yahoogroups.com_ (mailto:UHFSDR@yahoogroups.com)
Subject: Re: [UHFSDR] Re: Dayton

Mike:
I bought the tins at
<_http://www.papermart.com/Product%20Pages/Product.aspx?GroupID=20955&SubGroupID=20952&ParentGroupID=19037#20952_ (http://www.papermart.com/Product%20Pages/Product.aspx?GroupID=20955&SubGroupID=20952&ParentGroupID=19037#20952) >
You have to buy 25 and don't get the pleasure of emptying them.

Dave - WB6DHW
http://wb6dhw.com (http://wb6dhw.com/) >

On 6/8/2012 4:07 PM, MIKE DURKIN wrote:

What candy tin?
I like candy and an enclosure as a bonus!

BTY, sdr2go works ok for stand alone controller/sound ...

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960. RE: [UHFSDR] Re: Dayton

Yahoo group: UHFSDR
Date: 2012-06-10 02:07:58 UTC
From: The Silver Fox
Topic: 899 Message: 960

If people think it would be a plus, I can add the case into the kits for what may be a small increase. My personal opinion is that there isn’t enough interest to do it since many people are interfacing the board with other outboard capabilities such as amps and filters.

73,

Alan – W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of MIKE DURKIN
Sent: Saturday, June 09, 2012 4:00 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: Dayton

I know ... he dosent send the case though .... I seem to think I bought a bd and mini kit (maybe not the mini) .... Im looking for a case ....

I looked at the altoids a few hours ago ... its just too small. Then seen a makeup kit for kids ... 12$ ....

I don't know ....

-----Original Message-----

From: Sid Boyce
Sent: 9 Jun 2012 21:56:42 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: Dayton

alan.r.hill@... for full UHFSDR kits.
73 ... Sid.

On 09/06/12 19:53, MIKE DURKIN wrote:

Sigh .... ya need to offer a full kit.

-----Original Message-----

From: Dave
Sent: 9 Jun 2012 18:06:37 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: Dayton

Mike:
I bought the tins at
<http://www.papermart.com/Product%20Pages/Product.aspx?GroupID=20955 <http://www.papermart.com/Product%20Pages/Product.aspx?GroupID=20955&SubGroupID=20952&ParentGroupID=19037#20952> &SubGroupID=20952&ParentGroupID=19037#20952>
You have to buy 25 and don't get the pleasure of emptying them.

Dave - WB6DHW
http://wb6dhw.com>

On 6/8/2012 4:07 PM, MIKE DURKIN wrote:

What candy tin?
I like candy and an enclosure as a bonus!

BTY, sdr2go works ok for stand alone controller/sound ...

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961. Re: [UHFSDR] Re: Dayton

Yahoo group: UHFSDR
Date: 2012-06-10 03:07:22 UTC
From: Jim Sanford
Topic: 899 Message: 961

Agree.
73,
Jim
wb4gcs@...

On 6/9/2012 10:07 PM, The Silver Fox wrote:
>
> If people think it would be a plus, I can add the case into the kits
> for what may be a small increase. My personal opinion is that there
> isn’t enough interest to do it since many people are interfacing the
> board with other outboard capabilities such as amps and filters.
>
> 73,
>
> Alan – W6ARH
>
> *From:*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] *On
> Behalf Of *MIKE DURKIN
> *Sent:* Saturday, June 09, 2012 4:00 PM
> *To:* UHFSDR@yahoogroups.com
> *Subject:* Re: [UHFSDR] Re: Dayton
>
> I know ... he dosent send the case though .... I seem to think I
> bought a bd and mini kit (maybe not the mini) .... Im looking for a
> case ....
>
> I looked at the altoids a few hours ago ... its just too small. Then
> seen a makeup kit for kids ... 12$ ....
>
> I don't know ....
>
> -----Original Message-----
>
> From: Sid Boyce
> Sent: 9 Jun 2012 21:56:42 GMT
> To: UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> Subject: Re: [UHFSDR] Re: Dayton
>
> alan.r.hill@... <mailto:alan.r.hill@...> for full UHFSDR kits.
> 73 ... Sid.
>
> On 09/06/12 19:53, MIKE DURKIN wrote:
>
> Sigh .... ya need to offer a full kit.
>

> -----Original Message-----
>
> From: Dave
> Sent: 9 Jun 2012 18:06:37 GMT
> To: UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> Subject: Re: [UHFSDR] Re: Dayton
>
> Mike:
> I bought the tins at
> <http://www.papermart.com/Product%20Pages/Product.aspx?GroupID=20955&SubGroupID=20952&Pa
rentGroupID=19037#20952
> <http://www.papermart.com/Product%20Pages/Product.aspx?GroupID=20955&SubGroupID=20952&Pa
rentGroupID=19037#20952>>
> You have to buy 25 and don't get the pleasure of emptying them.
>
> Dave - WB6DHW
> http://wb6dhw.com>
>
> On 6/8/2012 4:07 PM, MIKE DURKIN wrote:
>
> What candy tin?
> I like candy and an enclosure as a bonus!
>
> BTY, sdr2go works ok for stand alone controller/sound ...
>
>
>
>
> --
> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
> Senior Staff Specialist, Cricket Coach
> Microsoft Windows Free Zone - Linux used for all Computing Tasks
>
>

962. RE: [UHFSDR] ADT1-1

Yahoo group: UHFSDR
Date: 2012-06-10 03:28:55 UTC
From: MIKE DURKIN
Topic: 954 Message: 962

Hey Dave WB6DHW,
How much more of a loss would there you think if I used a ADT1-1WT on the bandpass filter?

Its listed as 75ohm ... I think the ADT1-1 is 50ohm (not sure) ...

-----Original Message-----

From: MIKE DURKIN
Sent: 9 Jun 2012 16:03:22 GMT
To: uhfsdr@yahoogroups.com
Subject: [UHFSDR] ADT1-1

Does any one have a ADT1-1 for sale less than what mini circuits single purchase price?

Mike KC7NOA

963. Re: [UHFSDR] Re: Dayton

Yahoo group: UHFSDR
Date: 2012-06-10 03:31:36 UTC
From: Larry
Topic: 899 Message: 963

While novel it's not practical long term unless you're making a modular setup. So I would agree. The tin is not very rugged.

Larry W9amr

-----Original Message-----
From: Jim Sanford <wb4gcs@amsat.org>
Sender: UHFSDR@yahoogroups.com
Date: Sat, 09 Jun 2012 23:07:22
To: <UHFSDR@yahoogroups.com>
Reply-To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: Dayton

Agree.
73,
Jim
wb4gcs@amsat.org

On 6/9/2012 10:07 PM, The Silver Fox wrote:
>
> If people think it would be a plus, I can add the case into the kits
> for what may be a small increase. My personal opinion is that there
> isn’t enough interest to do it since many people are interfacing the
> board with other outboard capabilities such as amps and filters.
>
> 73,
>
> Alan – W6ARH
>
> *From:*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] *On
> Behalf Of *MIKE DURKIN
> *Sent:* Saturday, June 09, 2012 4:00 PM
> *To:* UHFSDR@yahoogroups.com
> *Subject:* Re: [UHFSDR] Re: Dayton
>
> I know ... he dosent send the case though .... I seem to think I
> bought a bd and mini kit (maybe not the mini) .... Im looking for a
> case ....
>
> I looked at the altoids a few hours ago ... its just too small. Then
> seen a makeup kit for kids ... 12$ ....
>
> I don't know ....
>
> -----Original Message-----
>

> From: Sid Boyce
> Sent: 9 Jun 2012 21:56:42 GMT
> To: UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> Subject: Re: [UHFSDR] Re: Dayton
>
> alan.r.hill@gmail.com <mailto:alan.r.hill@gmail.com> for full UHFSDR kits.
> 73 ... Sid.
>
> On 09/06/12 19:53, MIKE DURKIN wrote:
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> Sigh .... ya need to offer a full kit.
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> From: Dave
> Sent: 9 Jun 2012 18:06:37 GMT
> To: UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> Subject: Re: [UHFSDR] Re: Dayton
>
> Mike:
> I bought the tins at
> <http://www.papermart.com/Product%20Pages/Product.aspx?GroupID=20955&SubGroupID=20952&Pa
rentGroupID=19037#20952
> <http://www.papermart.com/Product%20Pages/Product.aspx?GroupID=20955&SubGroupID=20952&Pa
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> You have to buy 25 and don't get the pleasure of emptying them.
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> Dave - WB6DHW
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> On 6/8/2012 4:07 PM, MIKE DURKIN wrote:
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> What candy tin?
> I like candy and an enclosure as a bonus!
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> BTY, sdr2go works ok for stand alone controller/sound ...
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> --
> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
> Senior Staff Specialist, Cricket Coach
> Microsoft Windows Free Zone - Linux used for all Computing Tasks
>
>

964. Re: Dayton

Yahoo group: UHFSDR
Date: 2012-06-10 09:02:49 UTC
From: Ed
Topic: 899 Message: 964

Hello All,

Regarding an enclosure for this great SDR. Please see my message No. 699 entitled " UHFSDR in Eddystone Die Cast Box ". There are pictures in the files section. (Sorry for that, I should have put them in the PHOTOS section).
The case is just perfect for this project. As you shall read, I have incorporated a USB front end. Dave, Please ,Please add these few components to any revised PCB layout. I want to make a few more of the UHFSDR design.
Thanks.
Regards to you all.
Ed GM3SBC

--- In UHFSDR@yahoogroups.com, "Larry" <w9amr@...> wrote:
>
> While novel it's not practical long term unless you're making a modular setup. So I would agree. The tin is not very rugged.
>
> Larry W9amr
>
> -----Original Message-----
> From: Jim Sanford <wb4gcs@...>
> Sender: UHFSDR@yahoogroups.com
> Date: Sat, 09 Jun 2012 23:07:22
> To: <UHFSDR@yahoogroups.com>
> Reply-To: UHFSDR@yahoogroups.com
> Subject: Re: [UHFSDR] Re: Dayton
>
> Agree.
> 73,
> Jim
> wb4gcs@...
>
>
> On 6/9/2012 10:07 PM, The Silver Fox wrote:
> >
> > If people think it would be a plus, I can add the case into the kits
> > for what may be a small increase. My personal opinion is that there
> > isnâ□□t enough interest to do it since many people are interfacing the
> > board with other outboard capabilities such as amps and filters.
> >
> > 73,
> >
> > Alan â□" W6ARH
> >
> > *From:*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] *On

> > Behalf Of *MIKE DURKIN
> > *Sent:* Saturday, June 09, 2012 4:00 PM
> > *To:* UHFSDR@yahoogroups.com
> > *Subject:* Re: [UHFSDR] Re: Dayton
> >
> > I know ... he dosent send the case though .... I seem to think I
> > bought a bd and mini kit (maybe not the mini) .... Im looking for a
> > case ....
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> > I don't know ....
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> > From: Sid Boyce
> > Sent: 9 Jun 2012 21:56:42 GMT
> > To: UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> > Subject: Re: [UHFSDR] Re: Dayton
> >
> > alan.r.hill@... <mailto:alan.r.hill@...> for full UHFSDR kits.
> > 73 ... Sid.
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> > On 09/06/12 19:53, MIKE DURKIN wrote:
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> > Sigh .... ya need to offer a full kit.
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> > From: Dave
> > Sent: 9 Jun 2012 18:06:37 GMT
> > To: UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
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> > Mike:
> > I bought the tins at
> > <http://www.papermart.com/Product%20Pages/Product.aspx?GroupID=20955&SubGroupID=20952&ParentGroupID=19037#20952
> > <http://www.papermart.com/Product%20Pages/Product.aspx?GroupID=20955&SubGroupID=20952&ParentGroupID=19037#20952>>
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> > Dave - WB6DHW
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> > Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
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> > Senior Staff Specialist, Cricket Coach
> > Microsoft Windows Free Zone - Linux used for all Computing Tasks
> >
> >
>

965. Re: UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-06-10 13:10:28 UTC
From: rhillard@austin.rr.com
Topic: 714 Message: 965

Where can the SPF5043 MMIC be purchased?

Bob WA6UFQ

--- In UHFSDR@yahoogroups.com, "Michael" <Patriot121@...> wrote:
>
> Could some one take a picture of 1 installed in the UHFSDR for orientation reference?
>
> Mike KC7NOA
>
> --- In UHFSDR@yahoogroups.com, "Ed" <ed.murphy31@> wrote:
> >
> > Hi Dave,
> >
> > (wrote a big reply and lost it so now out of time, short one !)
> >
> > Re DC Band operation:
> >
> > Using a VNA I check the gain response using the 100nH Inductor only and below 4 Mhz the gain was several tens of dBs down.
> >
> > I did not have any other suitable Inductors to hand so decided to insert a 47 ohm resistor in series with the 100nH Inductor.
> >
> > The SPF5043Z bias is now 3.6 volts from the 4.7 volts with the choke alone.
> >
> > Measuring from the J4 socket to C8 output.
> >
> > 1.5 Mhz to 150 Mhz Flat with a ripple of 0.43dB
> > 150 Mhz to 432 Mhz rolling smoothly down by 10dB
> > 432 Mhz to 700 Mhz Flat, ripple 1dB
> >
> > Results:
> > 10 Mhz -145dBm
> > 30 Mhz -145dBm
> > 144Mhz -145dBm
> > 220Mhz -143dBm
> > 432Mhz -140dBm
> >
> > Could be useful now to have a couple of beta testers to check this confguration and possibly other Inductor arrangements should you be concerned about the gain flatness and IC bias requirement.
> > ***Remember to check the IC pin out, the in and out are reversed***
> > Regards
> > Ed GM3SBC

> >
> >
> >
> >
> >
> > --- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@> wrote:
> > >
> > > Sounds like another instance of series set chokes, 100nH & 560nH and a 3.3uH ....
> > >
> > > Probably will look odd .....
> > >
> > > Mike KC7NOA
> > >
> > > To: UHFSDR@yahoogroups.com
> > > From: dave@
> > > Date: Wed, 22 Feb 2012 17:57:39 -0800
> > > Subject: Re: [UHFSDR] UHFSDR Sensitivity Improvement
> > >
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> > >
> > > Ed:
> > >
> > > If you test the mmic at HF, you will need to increase the value of
> > > the choke. 1uH will probably be OK to 10 MHz, 3.3 uH for lower.
> > >
> > >

> > >
> > > Dave - WB6DHW
> > >
> > > <http://wb6dhw.com>
> > >
> > >
> > >
> > > On 2/22/2012 1:15 PM, Ed wrote:
> > >
> > >
> > >
> > >
> > > Hello All you UHFSDR lovers,
> > >
> > >
> > >
> > > I decided to do some further measurements of the MDS on my
> > > UHFSDR.
> > >
> > >
> > >
> > > I started by measuring the UHFSDR unmodified in the
> > > following set up conditions:
> > >
> > >
> > >
> > > Software: WRplus
> > >
> > > PC: ASPIRE One Net book
> > >
> > > Signal Generator: HP with additional Microwave
> > > attenuators.
> > >
> > > Mode : CW
> > >
> > > Frequency: 144.300 Mhz
> > >
> > > Bandwidth: 500Hz
> > >
> > > AGC:Off
> > >
> > >
> > >
> > > The result for 1 dB signal above noise power : -133dBm.
> > >
> > >
> > >
> > > I then decided to change U4 (BGA612) to a different type
> > > of MMIC, the SPF5043Z. This is a 50 Mhz to 4 Ghz part with
> > > high dynamic range. It has a lower noise figure and higher

> > > gain than the BGA612.
> > >
> > > The mod was simple, remove the BGA612, install the
> > > SPF5043Z taking care to check the different orientation
> > > and replace R3 (120 ohm)with a 100nH Inductor.
> > >
> > >
> > >
> > > The result for 1 dB signal above noise power : -145dBm
> > >
> > >
> > >
> > > So if you want a super sensitive VHF/UHF front end, you
> > > got it !
> > >
> > >
> > >
> > > Only possible down side is that the IC starts to degrade
> > > below 50 Mhz. It could still be adequate for the DC bands
> > > if you really must use the UHFSDR for that purpose.
> > >
> > >
> > >
> > > What a remarkable little radio this is.
> > >
> > >
> > >
> > > Regards
> > >
> > >
> > >
> > > Ed GM3SBC
> > >
> >
>

966. Re: [UHFSDR] ADT1-1

Yahoo group: UHFSDR
Date: 2012-06-10 18:59:45 UTC
From: Dave
Topic: 954 Message: 966

Mike:
I don't think there would be much affect. The actual bandwidth of
the transformer will be different with 50 ohms rather than 75.

Dave - WB6DHW
<http://wb6dhw.com>

On 6/9/2012 8:28 PM, MIKE DURKIN wrote:
>
> Hey Dave WB6DHW,
> How much more of a loss would there you think if I used a ADT1-1WT
> on the bandpass filter?
>
> Its listed as 75ohm ... I think the ADT1-1 is 50ohm (not sure) ...
>
> -----Original Message-----
>
> From: MIKE DURKIN
> Sent: 9 Jun 2012 16:03:22 GMT
> To: uhfsdr@yahoogroups.com
> Subject: [UHFSDR] ADT1-1
>
> Does any one have a ADT1-1 for sale less than what mini circuits
> single purchase price?
>
> Mike KC7NOA
>
>

967. Re: [UHFSDR] ADT1-1

Yahoo group: UHFSDR
Date: 2012-06-11 00:18:38 UTC
From: MIKE DURKIN
Topic: 954 Message: 967

Ok ... I don't have any way to check those kind of things .... the WT seems to have slightly better loss across the operating range ... but 75ohms ....

Found a bunch of WT's on fleePay for about 5$ each ..... probably fakes.

Mike KC7NOA

-----Original Message-----

From: Dave
Sent: 10 Jun 2012 19:01:09 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] ADT1-1

Mike:
I don't think there would be much affect. The actual bandwidth of the transformer will be different with 50 ohms rather than 75.

Dave - WB6DHW
<http://wb6dhw.com>

On 6/9/2012 8:28 PM, MIKE DURKIN wrote:
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> Hey Dave WB6DHW,
> How much more of a loss would there you think if I used a ADT1-1WT
> on the bandpass filter?
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> To: uhfsdr@yahoogroups.com
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> Does any one have a ADT1-1 for sale less than what mini circuits
> single purchase price?
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> Mike KC7NOA
>
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968. Starter guide for DSP software

Yahoo group: UHFSDR
Date: 2012-06-11 09:10:47 UTC
From: vk3nx
Topic: 968 Message: 968

Hi guys, I am pleased to say that I have finished my build of the UHF SDR and so far everything "checked out " OK. I am up to the stage where I have hooked it up to the computer and using Power SDR IQ I seem to be controlling the Si570 and am actually hearing and generating RF as per the excellent manual. I have several issues such as constant "popping sounds" and I can see "image" frequencies moving across the spectrum as I tune. I am having a very hard time resolving stations... I am sure all of these issues are related to my lack of undertstanding on the setup of power SDR IQ.....

Is there a "quick start guide" or is there an easier program that I should use to "cut my teeth on".

Many thanks
Charlie
VK3NX

969. Re: UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-06-11 11:05:38 UTC
From: Ed
Topic: 714 Message: 969

--- In UHFSDR@yahoogroups.com, rhillard@... wrote:
>
> Where can the SPF5043 MMIC be purchased?
>
> Bob WA6UFQ
Hi Bob,
I think you could do no better than contact Sam, G4DDK. He is on the web. He may also have a colleague in the USA who supplys them. The mod in my opinion completely transforms the performance of the receiver.
Regards Ed GM3SBC
>
> --- In UHFSDR@yahoogroups.com, "Michael" <Patriot121@> wrote:
> >
> > Could some one take a picture of 1 installed in the UHFSDR for orientation reference?
> >
> > Mike KC7NOA
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> > --- In UHFSDR@yahoogroups.com, "Ed" <ed.murphy31@> wrote:
> > >
> > > Hi Dave,
> > >
> > > (wrote a big reply and lost it so now out of time, short one !)
> > >
> > > Re DC Band operation:
> > >
> > > Using a VNA I check the gain response using the 100nH Inductor only and below 4 Mhz the gain was several tens of dBs down.
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> > > I did not have any other suitable Inductors to hand so decided to insert a 47 ohm resistor in series with the 100nH Inductor.
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> > > Measuring from the J4 socket to C8 output.
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> > > 1.5 Mhz to 150 Mhz Flat with a ripple of 0.43dB
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> > > Results:
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> > > ***Remember to check the IC pin out, the in and out are reversed***
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> > > --- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@> wrote:
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> > > > Software: WRplus
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> > > > PC: ASPIRE One Net book
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> > > > Signal Generator: HP with additional Microwave
> > > > attenuators.
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> > > > Mode : CW
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> > > > Frequency: 144.300 Mhz
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> > > > Bandwidth: 500Hz
> > > >
> > > > AGC:Off
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> > > > The result for 1 dB signal above noise power : -133dBm.
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> > > > I then decided to change U4 (BGA612) to a different type
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> > > > high dynamic range. It has a lower noise figure and higher
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> > > >
> > > > Regards
> > > >
> > > >
> > > >
> > > > Ed GM3SBC
> > > >
> > >
> >
>

970. Re: [UHFSDR] Starter guide for DSP software

Yahoo group: UHFSDR
Date: 2012-06-11 11:49:34 UTC
From: Sid Boyce
Topic: 968 Message: 970

Images are usually caused by either I or Q missing. Check your cabling to the sound card.
Line In should be stereo which is not the case with some laptops if you are using one.
73 ... Sid.

On 11/06/12 10:10, vk3nx wrote:
>
> Hi guys, I am pleased to say that I have finished my build of the UHF
> SDR and so far everything "checked out " OK. I am up to the stage
> where I have hooked it up to the computer and using Power SDR IQ I
> seem to be controlling the Si570 and am actually hearing and
> generating RF as per the excellent manual. I have several issues such
> as constant "popping sounds" and I can see "image" frequencies moving
> across the spectrum as I tune. I am having a very hard time resolving
> stations... I am sure all of these issues are related to my lack of
> undertstanding on the setup of power SDR IQ.....
>
> Is there a "quick start guide" or is there an easier program that I
> should use to "cut my teeth on".
>
> Many thanks
> Charlie
> VK3NX
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

971. RE: [UHFSDR] Re: UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-06-11 17:30:42 UTC
From: The Silver Fox
Topic: 714 Message: 971

I am planning on augmenting the kit with this component. It will raise the cost of the kit by $4.00. Any gripes about doing this?

73,

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Ed
Sent: Monday, June 11, 2012 4:06 AM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Re: UHFSDR Sensitivity Improvement

--- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com> , rhillard@... wrote:
>
> Where can the SPF5043 MMIC be purchased?
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> Bob WA6UFQ
Hi Bob,
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Regards Ed GM3SBC
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> > > (wrote a big reply and lost it so now out of time, short one !)
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> > > > Subject: Re: [UHFSDR] UHFSDR Sensitivity Improvement
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> > > > PC: ASPIRE One Net book
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> > > > Signal Generator: HP with additional Microwave
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972. Re: [UHFSDR] Re: UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-06-11 18:08:51 UTC
From: Dave
Topic: 714 Message: 972

Digikey has them for $3.22 each.

Dave - WB6DHW
<http://wb6dhw.com>

On 6/11/2012 4:05 AM, Ed wrote:
>
>
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
> rhillard@... wrote:
> >
> > Where can the SPF5043 MMIC be purchased?
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> Hi Bob,
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973. Re: [UHFSDR] Re: UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-06-11 22:31:13 UTC
From: Jim Sanford
Topic: 714 Message: 973

NO!!!!!!
I'd have GLADLY paid $4 more!

AND, if you're willing to sell individual parts to those who bought
older kits, I (and I bet others) would be grateful!

Thanks & 73,
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wb4gcs@...

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> *Sent:* Monday, June 11, 2012 4:06 AM
> *To:* UHFSDR@yahoogroups.com
> *Subject:* [UHFSDR] Re: UHFSDR ! Sensitivity Improvement
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974. Re: [UHFSDR] Re: UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-06-12 01:02:55 UTC
From: Jeff Thompson
Topic: 714 Message: 974

Please count me in! How much for the chip??

72 de Jeff W3HVU

Quoting Jim Sanford <wb4gcs@...>:

> NO!!!!!!
> I'd have GLADLY paid $4 more!
>
> AND, if you're willing to sell individual parts to those who bought
> older kits, I (and I bet others) would be grateful!
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975. RE: [UHFSDR] Re: UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-06-12 02:06:13 UTC
From: The Silver Fox
Topic: 714 Message: 975

Including the chip in the kit adds $4 to the cost of the kit. Selling it separately is more expensive due to packaging and shipping costs. An often overlooked cost for US customers is the shipping and state taxes added to my purchase costs.

So, I would need about $6 for US and $7 for DX. Please let me know and I will bulk order some chips.

73,

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Jeff Thompson
Sent: Monday, June 11, 2012 6:03 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: UHFSDR Sensitivity Improvement

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976. Re: UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-06-12 02:20:39 UTC
From: Hank
Topic: 714 Message: 976

I would also order one of the chips also and retrofit my board. As far as $4 more for the kit, it would not stop me from buying the kit.

Hank
WZ3HMT

--- In UHFSDR@yahoogroups.com, "The Silver Fox" <alan.r.hill@...> wrote:
>
> Including the chip in the kit adds $4 to the cost of the kit. Selling it
> separately is more expensive due to packaging and shipping costs. An often
> overlooked cost for US customers is the shipping and state taxes added to my
> purchase costs.
>
> So, I would need about $6 for US and $7 for DX. Please let me know and I
> will bulk order some chips.
>
>
>
> 73,
>
> Alan - W6ARH
>
>
>
>
>
> From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
> Jeff Thompson
> Sent: Monday, June 11, 2012 6:03 PM
> To: UHFSDR@yahoogroups.com
> Subject: Re: [UHFSDR] Re: UHFSDR Sensitivity Improvement
>
>
>
>
>
> Please count me in! How much for the chip??
>
> 72 de Jeff W3HVU
>
> Quoting Jim Sanford <wb4gcs@... <mailto:wb4gcs%40amsat.org> >:
>
> > NO!!!!!!
> > I'd have GLADLY paid $4 more!
> >

> > AND, if you're willing to sell individual parts to those who bought
> > older kits, I (and I bet others) would be grateful!
> >
> > Thanks & 73,
> > Jim
> > wb4gcs@... <mailto:wb4gcs%40amsat.org>
> >
> >
> > On 6/11/2012 1:30 PM, The Silver Fox wrote:
> >>
> >> I am planning on augmenting the kit with this component. It will
> >> raise the cost of the kit by $4.00. Any gripes about doing this?
> >>
> >> 73,
> >>
> >> Alan -- W6ARH
> >>
>

977. Re: [UHFSDR] Starter guide for DSP software

Yahoo group: UHFSDR
Date: 2012-06-12 03:07:51 UTC
From: w9amr@aol.com
Topic: 968 Message: 977

I would agree with Sid. It

In a message dated 6/11/2012 7:50:29 A.M. Eastern Daylight Time,
sboyce@... writes:

Images are usually caused by either I or Q missing. Check your cabling to
the sound card.
Line In should be stereo which is not the case with some laptops if you
are using one.
73 ... Sid.

On 11/06/12 10:10, vk3nx wrote:

Hi guys, I am pleased to say that I have finished my build of the UHF SDR
and so far everything "checked out " OK. I am up to the stage where I have
hooked it up to the computer and using Power SDR IQ I seem to be controlling
the Si570 and am actually hearing and generating RF as per the excellent
manual. I have several issues such as constant "popping sounds" and I can
see "image" frequencies moving across the spectrum as I tune. I am having a
very hard time resolving stations... I am sure all of these issues are
related to my lack of undertstanding on the setup of power SDR IQ.....

Is there a "quick start guide" or is there an easier program that I should
use to "cut my teeth on".

Many thanks
Charlie
VK3NX

--

Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot

Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support

Senior Staff Specialist, Cricket Coach

Microsoft Windows Free Zone - Linux used for all Computing Tasks

978. Re: [UHFSDR] Starter guide for DSP software

Yahoo group: UHFSDR
Date: 2012-06-12 03:12:28 UTC
From: MIKE DURKIN
Topic: 968 Message: 978

Try SdrSharp .... with no Rf front end setup in SdrSharp. Use CFGSR to tune around (Si570??).

-----Original Message-----

From: w9amr@...
Sent: 12 Jun 2012 03:08:03 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Starter guide for DSP software

I would agree with Sid. It

In a message dated 6/11/2012 7:50:29 A.M. Eastern Daylight Time, sboyce@... writes:

Images are usually caused by either I or Q missing. Check your cabling to the sound card.
Line In should be stereo which is not the case with some laptops if you are using one.
73 ... Sid.

On 11/06/12 10:10, vk3nx wrote:

Hi guys, I am pleased to say that I have finished my build of the UHF SDR and so far everything "checked out " OK. I am up to the stage where I have hooked it up to the computer and using Power SDR IQ I seem to be controlling the Si570 and am actually hearing and generating RF as per the excellent manual. I have several issues such as constant "popping sounds" and I can see "image" frequencies moving across the spectrum as I tune. I am having a very hard time resolving stations... I am sure all of these issues are related to my lack of undertstanding on the setup of power SDR IQ.....

Is there a "quick start guide" or is there an easier program that I should use to "cut my teeth on".

Many thanks
Charlie
VK3NX

--

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979. RE: [UHFSDR] Re: UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-06-12 03:16:51 UTC
From: Jeff Thompson
Topic: 714 Message: 979

Hi Alan,

Two chips, please. Paypal for $12 to FL? What's your Paypal address?

Thanks,

Jeff, W3HVU

Quoting The Silver Fox <alan.r.hill@...>:

> Including the chip in the kit adds $4 to the cost of the kit. Selling it
> separately is more expensive due to packaging and shipping costs. An often
> overlooked cost for US customers is the shipping and state taxes added to my
> purchase costs.
>
> So, I would need about $6 for US and $7 for DX. Please let me know and I
> will bulk order some chips.
>
>
>
> 73,
>
> Alan - W6ARH
>
>
>
>
>
> From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
> Jeff Thompson
> Sent: Monday, June 11, 2012 6:03 PM
> To: UHFSDR@yahoogroups.com
> Subject: Re: [UHFSDR] Re: UHFSDR Sensitivity Improvement
>
>
>
>
>
> Please count me in! How much for the chip??
>
> 72 de Jeff W3HVU
>

980. Re: [UHFSDR] Re: UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-06-12 03:16:57 UTC
From: Phil Moat
Topic: 714 Message: 980

GD Alan,
I'll have one.
How do I pay you again?

Phil VK4CDI
8 Bradley Cr
Hodgsonvale 4352
Australia

On Tue, Jun 12, 2012 at 12:06 PM, The Silver Fox <alan.r.hill@...>wrote:

> **
>
>
> Including the chip in the kit adds $4 to the cost of the kit. Selling
> it separately is more expensive due to packaging and shipping costs. An
> often overlooked cost for US customers is the shipping and state taxes
> added to my purchase costs.****
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> So, I would need about $6 for US and $7 for DX. Please let me know and I
> will bulk order some chips.****
>
> ** **
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> 73,****
>
> Alan – W6ARH****
>
> ** **
>
> ** **
>
> *From:* UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] *On Behalf
> Of *Jeff Thompson
> *Sent:* Monday, June 11, 2012 6:03 PM
> *To:* UHFSDR@yahoogroups.com
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> ** **
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> Please count me in! How much for the chip??
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> 72 de Jeff W3HVU
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> Quoting Jim Sanford <wb4gcs@...>:
>
> > NO!!!!!!
> > I'd have GLADLY paid $4 more!
> >
> > AND, if you're willing to sell individual parts to those who bought
> > older kits, I (and I bet others) would be grateful!
> >
> > Thanks & 73,
> > Jim
> > wb4gcs@...
> >
> >
> > On 6/11/2012 1:30 PM, The Silver Fox wrote:
> >>
> >> I am planning on augmenting the kit with this component. It will
> >> raise the cost of the kit by $4.00. Any gripes about doing this?
> >>
> >> 73,
> >>
> >> Alan -- W6ARH
> >>*****
>
> ****
>
>
>

981. Re: [UHFSDR] Starter guide for DSP software

Yahoo group: UHFSDR
Date: 2012-06-12 03:17:11 UTC
From: w9amr@aol.com
Topic: 968 Message: 981

I would agree with Sid

Sounds like a image problem. What version of PSDR are your using? The newest version has auto image adjustment. I use v1.12 under XP and it is adjustable. Look under setup/dsp/image reject. The adjustment is a little touchy. I use the mouse wheel to adjust. If you can get image rejection there or it has auto rejection try grounding one side or the other (one at a time). The RX will stop working on the channel that is working. Time saver way to check it if you don't have a scope.

Larry W9AMR

Images are usually caused by either I or Q missing. Check your cabling to the sound card.
Line In should be stereo which is not the case with some laptops if you are using one.
73 ... Sid.

On 11/06/12 10:10, vk3nx wrote:

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Is there a "quick start guide" or is there an easier program that I should use to "cut my teeth on".

Many thanks
Charlie
VK3NX

--

Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot

Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support

Senior Staff Specialist, Cricket Coach

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982. Re: [UHFSDR] Starter guide for DSP software

Yahoo group: UHFSDR
Date: 2012-06-12 03:27:04 UTC
From: MIKE DURKIN
Topic: 968 Message: 982

Some audio cards have separate gain controls .... check that before shorting the audio ... some thing I wouldn't do unless I had no other way to check left right

-----Original Message-----

From: w9amr@...
Sent: 12 Jun 2012 03:17:20 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Starter guide for DSP software

I would agree with Sid

Sounds like a image problem. What version of PSDR are your using? The newest version has auto image adjustment. I use v1.12 under XP and it is adjustable. Look under setup/dsp/image reject. The adjustment is a little touchy. I use the mouse wheel to adjust. If you can get image rejection there or it has auto rejection try grounding one side or the other (one at a time). The RX will stop working on the channel that is working. Time saver way to check it if you don't have a scope.

Larry W9AMR

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73 ... Sid.

On 11/06/12 10:10, vk3nx wrote:

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Charlie
VK3NX

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983. Re: [UHFSDR] Starter guide for DSP software

Yahoo group: UHFSDR
Date: 2012-06-12 03:49:57 UTC
From: w9amr@aol.com
Topic: 968 Message: 983

Unless you touch somewhere else on the UHFSDR, grounding the Audio leads is pretty harmless. But I should have added a disclaimer "do at your own risk!"

Larry W9AMR

In a message dated 6/11/2012 11:27:58 P.M. Eastern Daylight Time, Patriot121@... writes:

Some audio cards have separate gain controls .... check that before shorting the audio ... some thing I wouldn't do unless I had no other way to check left right

-----Original Message-----

From: w9amr@...
Sent: 12 Jun 2012 03:17:20 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Starter guide for DSP software

I would agree with Sid

Sounds like a image problem. What version of PSDR are your using? The newest version has auto image adjustment. I use v1.12 under XP and it is adjustable. Look under setup/dsp/image reject. The adjustment is a little touchy. I use the mouse wheel to adjust. If you can get image rejection there or it has auto rejection try grounding one side or the other (one at a time). The RX will stop working on the channel that is working. Time saver way to check it if you don't have a scope.

Larry W9AMR

Images are usually caused by either I or Q missing. Check your cabling to the sound card.
Line In should be stereo which is not the case with some laptops if you are using one.
73 ... Sid.

On 11/06/12 10:10, vk3nx wrote:

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Many thanks
Charlie
VK3NX

--

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984. Re: [UHFSDR] Re: UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-06-12 07:16:37 UTC
From: Sid Boyce
Topic: 714 Message: 984

In Ed's original post he also mentioned replacing R3 (120 ohm) with a 100nH inductor.
Is part of the improvement dependent on this?

There were no responses to Ed asking for verification of his results. I'd especially like to see what values of R, R in series with L, or L alone are recommended - or the effect of having the SPF5043Z without changing R3, especially at say 3.5MHz and at VHF/UHF which is Ed's deployment.
73 ... Sid.

On 12/06/12 03:06, The Silver Fox wrote:
>
> Including the chip in the kit adds $4 to the cost of the kit. Selling
> it separately is more expensive due to packaging and shipping costs.
> An often overlooked cost for US customers is the shipping and state
> taxes added to my purchase costs.
>
> So, I would need about $6 for US and $7 for DX. Please let me know
> and I will bulk order some chips.
>
> 73,
>
> Alan -- W6ARH
>
> *From:*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] *On
> Behalf Of *Jeff Thompson
> *Sent:* Monday, June 11, 2012 6:03 PM
> *To:* UHFSDR@yahoogroups.com
> *Subject:* Re: [UHFSDR] Re: UHFSDR Sensitivity Improvement
>
> Please count me in! How much for the chip??
>
> 72 de Jeff W3HVU
>
> Quoting Jim Sanford <wb4gcs@... <mailto:wb4gcs%40amsat.org>>:
>
> > NO!!!!!!
> > I'd have GLADLY paid $4 more!
> >
> > AND, if you're willing to sell individual parts to those who bought
> > older kits, I (and I bet others) would be grateful!
> >
> > Thanks & 73,
> > Jim

> > wb4gcs@... <mailto:wb4gcs%40amsat.org>
> >
> >
> > On 6/11/2012 1:30 PM, The Silver Fox wrote:
> >>
> >> I am planning on augmenting the kit with this component. It will
> >> raise the cost of the kit by $4.00. Any gripes about doing this?
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> >> 73,
> >>
> >> Alan -- W6ARH
> >>
>
>

--
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985. Re: [UHFSDR] Re: UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-06-12 14:08:56 UTC
From: Kees & Sandy
Topic: 714 Message: 985
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

986. RE: [UHFSDR] Re: UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-06-12 15:08:26 UTC
From: The Silver Fox
Topic: 714 Message: 986

Ok. Later today I will order a set of the SPF5043 MMIC chips. For those interested in getting the chips my paypal address is my email address. The order will not be available to mid-week next week.

73,

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Phil Moat
Sent: Monday, June 11, 2012 8:17 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: UHFSDR Sensitivity Improvement

GD Alan,

I'll have one.

How do I pay you again?

Phil VK4CDI

8 Bradley Cr

Hodgsonvale 4352

Australia

On Tue, Jun 12, 2012 at 12:06 PM, The Silver Fox <alan.r.hill@...> wrote:

Including the chip in the kit adds $4 to the cost of the kit. Selling it separately is more expensive due to packaging and shipping costs. An often overlooked cost for US customers is the shipping and state taxes added to my purchase costs.

So, I would need about $6 for US and $7 for DX. Please let me know and I will bulk order some chips.

73,

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Jeff Thompson
Sent: Monday, June 11, 2012 6:03 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: UHFSDR Sensitivity Improvement

Please count me in! How much for the chip??

72 de Jeff W3HVU

Quoting Jim Sanford <wb4gcs@... <mailto:wb4gcs%40amsat.org> >:

> NO!!!!!!
> I'd have GLADLY paid $4 more!
>
> AND, if you're willing to sell individual parts to those who bought
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> Thanks & 73,
> Jim
> wb4gcs@... <mailto:wb4gcs%40amsat.org>
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>
> On 6/11/2012 1:30 PM, The Silver Fox wrote:
>>
>> I am planning on augmenting the kit with this component. It will
>> raise the cost of the kit by $4.00. Any gripes about doing this?
>>
>> 73,
>>
>> Alan -- W6ARH
>>

987. RE: [UHFSDR] Re: UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-06-13 15:15:47 UTC
From: MIKE DURKIN
Topic: 714 Message: 987

Id like one (maybe two) and a few other parts if you can spare them ...I need a replacement U10 and a pair of 10uF (C37 & C38) Im looking for a phase imbalance .... and i did install U10 backwards once ....
Mike KC7NOATo: UHFSDR@yahoogroups.com
From: alan.r.hill@...
Date: Tue, 12 Jun 2012 08:08:26 -0700
Subject: RE: [UHFSDR] Re: UHFSDR Sensitivity Improvement

Ok. Later today I will order a set of the SPF5043 MMIC chips. For those interested in getting the chips my paypal address is my email address. The order will not be available to mid-week next week.73,Alan – W6ARH From: UHFSDR@yahoogroups.com
[mailto:UHFSDR@yahoogroups.com] On Behalf Of Phil Moat
Sent: Monday, June 11, 2012 8:17 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: UHFSDR Sensitivity Improvement GD Alan,I'll have one.How do I pay you again? Phil VK4CDI8 Bradley CrHodgsonvale 4352AustraliaOn Tue, Jun 12, 2012 at 12:06 PM, The Silver Fox <alan.r.hill@...> wrote: Including the chip in the kit adds $4 to the cost of the kit. Selling it separately is more expensive due to packaging and shipping costs. An often overlooked cost for US customers is the shipping and state taxes added to my purchase costs.So, I would need about $6 for US and $7 for DX. Please let me know and I will bulk order some chips. 73,Alan – W6ARH From: UHFSDR@yahoogroups.com
[mailto:UHFSDR@yahoogroups.com] On Behalf Of Jeff Thompson
Sent: Monday, June 11, 2012 6:03 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: UHFSDR Sensitivity Improvement Please count me in! How much for the chip??

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Quoting Jim Sanford <wb4gcs@...>:

> NO!!!!!!
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>> raise the cost of the kit by $4.00. Any gripes about doing this?

>>
>> 73,
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>> Alan -- W6ARH
>>

988. Re: Starter guide for DSP software

Yahoo group: UHFSDR
Date: 2012-06-14 10:22:33 UTC
From: vk3nx
Topic: 968 Message: 988

Hi guys, thanks for all the comments and suggestions.
Today I had a good look at the setup.
I am still unable to get rid of the images. I rechecked the board and the "line out" sigs. As per the build manual with the Si570 operating at it's default frequency of 19.982MHz I inject a signal of 10.01MHz into the antenna port and on the Line Out channels I have 10 KHz signal 90 degrees apart. So I think my board is OK(?)
I tried everything in Power SDR (latest version)to do with image rejection and no improvement. I tried swapping the I Q lines also
I removed (shorted) one channel at a time and found NO difference. My conclusion is that the "stereo" line in on the "Realtek Sound card" may not be so stereo..... Is this the correct inference? I then tried my Sound blaster xfi external USB sound card and had exactly the same results.

A couple of questions.....
1. If the I and Q on the UHF SDR line out boards are 90 degrees out of phase can I conclude that I have the board operating correctly? Ithink so but perhaps I am missing something.
2. Has anyone any experience with the Realtek sound cards and the Sound Blaster XFI external USB units.....Are any of these adequate for an SDR? If not what should I invest my money in?

Many thanks in advance for your help

73
Charlie
VK3NX

989. Re: [UHFSDR] Re: Starter guide for DSP software

Yahoo group: UHFSDR
Date: 2012-06-14 17:53:08 UTC
From: Dave
Topic: 968 Message: 989

Charlie:
What A/D card are you using. Some cards require setting an offset
between the I and Q.

Dave - WB6DHW
<http://wb6dhw.com>

On 6/14/2012 3:22 AM, vk3nx wrote:
>
>
> Hi guys, thanks for all the comments and suggestions.
> Today I had a good look at the setup.
> I am still unable to get rid of the images. I rechecked the board and
> the "line out" sigs. As per the build manual with the Si570 operating
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> same results.
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> so but perhaps I am missing something.
> 2. Has anyone any experience with the Realtek sound cards and the
> Sound Blaster XFI external USB units.....Are any of these adequate
> for an SDR? If not what should I invest my money in?
>
> Many thanks in advance for your help
>
> 73
> Charlie
> VK3NX
>
>

990. Re: Starter guide for DSP software

Yahoo group: UHFSDR
Date: 2012-06-14 22:13:26 UTC
From: vk3nx
Topic: 968 Message: 990

Hi Dave,
I'm not sure! Do you mean on the UHF_SDR board or in the confuser?
I can open up the confuser and hopefully see which chip is on the soundcard.
Were do I cahnge the "offset correcton"? Is that the "IQ" correction in the PSDR setup tabs?

Many Thanks
73
Charlie

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> Charlie:
> What A/D card are you using. Some cards require setting an offset
> between the I and Q.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 6/14/2012 3:22 AM, vk3nx wrote:
> >
> >
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> > phase can I conclude that I have the board operating correctly? Ithink
> > so but perhaps I am missing something.
> > 2. Has anyone any experience with the Realtek sound cards and the
> > Sound Blaster XFI external USB units.....Are any of these adequate
> > for an SDR? If not what should I invest my money in?
> >

> > Many thanks in advance for your help
> >
> > 73
> > Charlie
> > VK3NX
> >
> >
>

991. Re: [UHFSDR] Re: Starter guide for DSP software

Yahoo group: UHFSDR
Date: 2012-06-14 23:05:58 UTC
From: Dave
Topic: 968 Message: 991

Charlie:
Yes, somewhere in the SDR software. I don't remember where,
however. Check some of the old messages in the Softrock40 group. Lots
of discussion on it.

Dave - WB6DHW
<http://wb6dhw.com>

On 6/14/2012 3:13 PM, vk3nx wrote:
>
> Hi Dave,
> I'm not sure! Do you mean on the UHF_SDR board or in the confuser?
> I can open up the confuser and hopefully see which chip is on the
> soundcard.
> Were do I cahnge the "offset correcton"? Is that the "IQ" correction
> in the PSDR setup tabs?
>
> Many Thanks
> 73
> Charlie
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Dave
> <dave@...> wrote:
> >
> > Charlie:
> > What A/D card are you using. Some cards require setting an offset
> > between the I and Q.
> >
> > Dave - WB6DHW
> > <http://wb6dhw.com>
> >
> > On 6/14/2012 3:22 AM, vk3nx wrote:
> > >
> > >
> > > Hi guys, thanks for all the comments and suggestions.
> > > Today I had a good look at the setup.
> > > I am still unable to get rid of the images. I rechecked the board and
> > > the "line out" sigs. As per the build manual with the Si570 operating
> > > at it's default frequency of 19.982MHz I inject a signal of 10.01MHz
> > > into the antenna port and on the Line Out channels I have 10 KHz
> > > signal 90 degrees apart. So I think my board is OK(?)
> > > I tried everything in Power SDR (latest version)to do with image
> > > rejection and no improvement. I tried swapping the I Q lines also
> > > I removed (shorted) one channel at a time and found NO difference. My
> > > conclusion is that the "stereo" line in on the "Realtek Sound card"

> > > may not be so stereo..... Is this the correct inference? I then
> > > tried my Sound blaster xfi external USB sound card and had exactly
> the
> > > same results.
> > >
> > > A couple of questions.....
> > > 1. If the I and Q on the UHF SDR line out boards are 90 degrees
> out of
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> > > so but perhaps I am missing something.
> > > 2. Has anyone any experience with the Realtek sound cards and the
> > > Sound Blaster XFI external USB units.....Are any of these adequate
> > > for an SDR? If not what should I invest my money in?
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> > > Many thanks in advance for your help
> > >
> > > 73
> > > Charlie
> > > VK3NX
> > >
> > >
> >
>
>

992. Re: [UHFSDR] Re: Starter guide for DSP software

Yahoo group: UHFSDR
Date: 2012-06-15 01:00:56 UTC
From: w9amr@aol.com
Topic: 968 Message: 992

Hi Charlie

Look on the setup/audio tab and there should be a IQ corr (correction) box.
Some of the Soundblaster cards require it.

If you are using a laptop most don't have a stereo line it. Check the sound
control panel and if it does make sure stereo is selected.

This may be all old news if you have tried this. But hopefully it helps in
some way.

Larry W9AMR

In a message dated 6/14/2012 6:13:30 P.M. Eastern Daylight Time,
ibnkarim@... writes:

Hi Dave,
I'm not sure! Do you mean on the UHF_SDR board or in the confuser?
I can open up the confuser and hopefully see which chip is on the
soundcard.
Were do I cahnge the "offset correcton"? Is that the "IQ" correction in
the PSDR setup tabs?

Many Thanks
73
Charlie

--- In _UHFSDR@yahoogroups.com_ (mailto:UHFSDR@yahoogroups.com) , Dave
<dave@...> wrote:
>
> Charlie:
> What A/D card are you using. Some cards require setting an offset
> between the I and Q.
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> Dave - WB6DHW
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> On 6/14/2012 3:22 AM, vk3nx wrote:
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> > Hi guys, thanks for all the comments and suggestions.
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> > the "line out" sigs. As per the build manual with the Si570 operating
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> > I tried everything in Power SDR (latest version)to do with image
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> > for an SDR? If not what should I invest my money in?
> >
> > Many thanks in advance for your help
> >
> > 73
> > Charlie
> > VK3NX
> >
> >
>

993. UHFSDR Kit step 72 not changing frequency

Yahoo group: UHFSDR
Date: 2012-06-15 06:25:41 UTC
From: Jim
Topic: 993 Message: 993

I have a problem with the Si570 not changing frequency when programmed to do so. Has anyone else run into this problem in step 72? After many hours of troubleshooting I conclude that there is either something wrong with my Si570 chip, or the program Si570.exe (and compiled version). One problem along the way was that the PC parallel port pin-14 (Autofeed) does not have sufficient current sourcing for U13 (ADUM1251), so I am using a 3.3 v battery pack.

The SDA and SCL i2c signals at the Si570 look ok on my scope. I was able to get the source code for Si570.c and compile it. I verified that the ACK was being generated following Slave Address, Byte Address, and Data writes. I even changed the code to allow reading of some registers and the SDA line could be seen with data coming back from the Si570.

The problem is that the frequency remains fixed at the default (close to 20MHz) and does not change when a value is entered in the GUI. Has anyone had this experience in building the kit? Does anyone have source code for a PIC that could be used to test the Si570 operation?

Thanks and 73,
Jim Brennan KJ6VRI

994. Re: [UHFSDR] UHFSDR Kit step 72 not changing frequency

Yahoo group: UHFSDR
Date: 2012-06-15 06:32:26 UTC
From: Keenan Tims
Topic: 993 Message: 994

I'm not sure if it's the same problem you're having or something else, but my ADuM1251 is definietly not working. I've currently got my I2C controller hooked up directly to the Si570 and it's working that way.

In my case the problem seems to be that the ADuM1251 works in the controller->Si570 direction, but the ACKs do not get forwarded back. As in your case, the signals on the Si570 look normal, but the missing ACK is noticed on the controller side. Try comparing the two SDA pins on the ADuM, they should be identical, if not you're having a similar problem as me. Probably also worth trying the controller hooked directly to the Si570 test points (mind that the maximum voltage here is probably 3.3V) just to make sure it's not a software/interface problem.

I've not yet had a chance to cut the chip off the board and replace it, but I'm pretty confident that's where the problem lies, there's really no other explanation for it.

Keenan VE7XEN

On 2012-06-14 11:25 PM, Jim wrote:
>
>
> I have a problem with the Si570 not changing frequency when programmed
> to do so. Has anyone else run into this problem in step 72? After many
> hours of troubleshooting I conclude that there is either something
> wrong with my Si570 chip, or the program Si570.exe (and compiled
> version). One problem along the way was that the PC parallel port
> pin-14 (Autofeed) does not have sufficient current sourcing for U13
> (ADUM1251), so I am using a 3.3 v battery pack.
>
> The SDA and SCL i2c signals at the Si570 look ok on my scope. I was
> able to get the source code for Si570.c and compile it. I verified
> that the ACK was being generated following Slave Address, Byte
> Address, and Data writes. I even changed the code to allow reading of
> some registers and the SDA line could be seen with data coming back
> from the Si570.
>
> The problem is that the frequency remains fixed at the default (close
> to 20MHz) and does not change when a value is entered in the GUI. Has
> anyone had this experience in building the kit? Does anyone have
> source code for a PIC that could be used to test the Si570 operation?
>
> Thanks and 73,
> Jim Brennan KJ6VRI
>
>

995. New file uploaded to UHFSDR

Yahoo group: UHFSDR
Date: 2012-06-15 07:06:38 UTC
From: UHFSDR@yahoogroups.com
Topic: 2 Message: 995

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the UHFSDR
group.

File : /UHFSDR Documentation /UHF_SDR Assembly Manual-with SV1OBT suggestions.doc
Uploaded by : brainerdd <dave@...>
Description : Assembly file with photos

You can access this file at the URL:
http://groups.yahoo.com/group/UHFSDR/files/UHFSDR%20Documentation%20/UHF_SDR%20Assembly%20Manual-with%20SV1OBT%20suggestions.doc

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

brainerdd <dave@...>

996. Re: Starter guide for DSP software

Yahoo group: UHFSDR
Date: 2012-06-15 09:36:08 UTC
From: vk3nx
Topic: 968 Message: 996

Hi Larry and Dave...
I have tried the "IQ correction".....but perhaps a bit "hastily" so I will try to make small adjustments and check if this helps.

I also tried "Rocky" and the "image" 18 kHz away, is still there and is obvious as I tune signals.

Can I just confirm something..... If my I and Q channels on the J2 connector are 90 degrees out of phase..... which they are as measured on my oscilloscope, then the UHF_SDR board is all OK and nothing else needs checking?
Also confirm please that the UHF_SDR does use X2 LO as opposed to X4 as most other programs like rocky need?

Thanks again guys for your help. I am sure I have built the board OK and I can tune signals but the image is "annoying"..... Also I see that there is a real "hump" around the centre frequncy many dB's above the noise floo, several kHz wide and "notched" at the centre..... Is this right?

73
Charlie
VK3NX

--- In UHFSDR@yahoogroups.com, w9amr@... wrote:
>
> Hi Charlie
>
> Look on the setup/audio tab and there should be a IQ corr (correction) box.
> Some of the Soundblaster cards require it.
>
> If you are using a laptop most don't have a stereo line it. Check the sound
> control panel and if it does make sure stereo is selected.
>
> This may be all old news if you have tried this. But hopefully it helps in
> some way.
>
> Larry W9AMR
>
>
> In a message dated 6/14/2012 6:13:30 P.M. Eastern Daylight Time,
> ibnkarim@... writes:
>
>
>
>
> Hi Dave,
> I'm not sure! Do you mean on the UHF_SDR board or in the confuser?

> I can open up the confuser and hopefully see which chip is on the
> soundcard.
> Were do I cahnge the "offset correcton"? Is that the "IQ" correction in
> the PSDR setup tabs?
>
> Many Thanks
> 73
> Charlie
>
> --- In _UHFSDR@yahoogroups.com_ (mailto:UHFSDR@yahoogroups.com) , Dave
> <dave@> wrote:
> >
> > Charlie:
> > What A/D card are you using. Some cards require setting an offset
> > between the I and Q.
> >
> > Dave - WB6DHW
> > <_http://wb6dhw.com_ (http://wb6dhw.com/) >
> >
> > On 6/14/2012 3:22 AM, vk3nx wrote:
> > >
> > >
> > > Hi guys, thanks for all the comments and suggestions.
> > > Today I had a good look at the setup.
> > > I am still unable to get rid of the images. I rechecked the board and
> > > the "line out" sigs. As per the build manual with the Si570 operating
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> > > conclusion is that the "stereo" line in on the "Realtek Sound card"
> > > may not be so stereo..... Is this the correct inference? I then
> > > tried my Sound blaster xfi external USB sound card and had exactly the
> > > same results.
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> > > A couple of questions.....
> > > 1. If the I and Q on the UHF SDR line out boards are 90 degrees out of
> > > phase can I conclude that I have the board operating correctly? Ithink
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> > > 2. Has anyone any experience with the Realtek sound cards and the
> > > Sound Blaster XFI external USB units.....Are any of these adequate
> > > for an SDR? If not what should I invest my money in?
> > >
> > > Many thanks in advance for your help
> > >
> > > 73
> > > Charlie
> > > VK3NX

> > >
> > >
> >
>

997. Re: [UHFSDR] New file uploaded to UHFSDR

Yahoo group: UHFSDR
Date: 2012-06-15 10:42:27 UTC
From: Sid Boyce
Topic: 2 Message: 997
Attachments: 1 described; binary payloads are missing from this source WARC

Very well done.
The only thing I never liked has been the coax link above the board
seems like it could get in the way and I've mounted it underneath on my
2 builds.
73 ... Sid.

On 15/06/12 08:06, UHFSDR@yahoogroups.com wrote:
>
>
> Hello,
>
> This email message is a notification to let you know that
> a file has been uploaded to the Files area of the UHFSDR
> group.
>
> File : /UHFSDR Documentation /UHF_SDR Assembly Manual-with SV1OBT
> suggestions.doc
> Uploaded by : brainerdd <dave@... <mailto:dave%40wb6dhw.com>>
> Description : Assembly file with photos
>
> You can access this file at the URL:
> http://groups.yahoo.com/group/UHFSDR/files/UHFSDR%20Documentation%20/UHF_SDR%20Assembly%
20Manual-with%20SV1OBT%20suggestions.doc
>
>
> To learn more about file sharing for your group, please visit:
> http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
> Regards,
>
> brainerdd <dave@... <mailto:dave%40wb6dhw.com>>
>
>
>

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Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

998. Re: UHFSDR Kit step 72 not changing frequency

Yahoo group: UHFSDR
Date: 2012-06-15 11:30:00 UTC
From: tony_g3ovh
Topic: 993 Message: 998

I also had a similar problem when I first ran my board from HPSDR-IQ with the parallel port interface. I posted on this group and it was suggested to be careful of the quality of the i2c signals. They looked ok on a scope but the Si570 sometimes worked and sometimes stayed on the default frequency. I changed the connexion between the PC and UHFSDR from single wires to screened coax and have never had a problem since.
Tony

--- In UHFSDR@yahoogroups.com, "Jim" <jimbr99@...> wrote:
>
> I have a problem with the Si570 not changing frequency when programmed to do so. Has anyone else run into this problem in step 72? After many hours of troubleshooting I conclude that there is either something wrong with my Si570 chip, or the program Si570.exe (and compiled version). One problem along the way was that the PC parallel port pin-14 (Autofeed) does not have sufficient current sourcing for U13 (ADUM1251), so I am using a 3.3 v battery pack.
>
> The SDA and SCL i2c signals at the Si570 look ok on my scope. I was able to get the source code for Si570.c and compile it. I verified that the ACK was being generated following Slave Address, Byte Address, and Data writes. I even changed the code to allow reading of some registers and the SDA line could be seen with data coming back from the Si570.
>
> The problem is that the frequency remains fixed at the default (close to 20MHz) and does not change when a value is entered in the GUI. Has anyone had this experience in building the kit? Does anyone have source code for a PIC that could be used to test the Si570 operation?
>
> Thanks and 73,
> Jim Brennan KJ6VRI
>

999. Re: [UHFSDR] UHFSDR Kit step 72 not changing frequency

Yahoo group: UHFSDR
Date: 2012-06-15 11:59:52 UTC
From: John Greusel
Topic: 993 Message: 999

Jim,
It appears you may be beyond this point but iy might be worth checking again- borrowing from the Softrock group, many (or most) instances of no frequency agility of the SI570 are due to improper soldering of the pads- particularly the ends. If you head over to that yahoo group and read the posts regarding this topic you will see many similar accounts.

John
KC9OJV

From: Jim <jimbr99@...>
To: UHFSDR@yahoogroups.com
Sent: Friday, June 15, 2012 1:25 AM
Subject: [UHFSDR] UHFSDR Kit step 72 not changing frequency

I have a problem with the Si570 not changing frequency when programmed to do so. Has anyone else run into this problem in step 72? After many hours of troubleshooting I conclude that there is either something wrong with my Si570 chip, or the program Si570.exe (and compiled version). One problem along the way was that the PC parallel port pin-14 (Autofeed) does not have sufficient current sourcing for U13 (ADUM1251), so I am using a 3.3 v battery pack.

The SDA and SCL i2c signals at the Si570 look ok on my scope. I was able to get the source code for Si570.c and compile it. I verified that the ACK was being generated following Slave Address, Byte Address, and Data writes. I even changed the code to allow reading of some registers and the SDA line could be seen with data coming back from the Si570.

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Thanks and 73,
Jim Brennan KJ6VRI

1000. Re: New file uploaded to UHFSDR

Yahoo group: UHFSDR
Date: 2012-06-15 13:35:37 UTC
From: Bob Hillard
Topic: 2 Message: 1000

Dave,

This is an excellent improvement to the assembly instructions. I found that I spent a lot of time hunting down the location of components on the board.

Bob WA6UFQ

1001. Re: [UHFSDR] New file uploaded to UHFSDR

Yahoo group: UHFSDR
Date: 2012-06-15 14:21:02 UTC
From: Charles Nolin
Topic: 2 Message: 1001

Hello Sid,

I will chime in on your comment, I also put a small RG178, coax jumper on

the bottom side. I didn't like it on top, on my two completed UHFSDR

radio's. They are both completed and running. What a fantastic radio.

Chuck Nolin
WA6LTV/4

From: Sid Boyce <sboyce@...>
To: UHFSDR@yahoogroups.com
Sent: Friday, June 15, 2012 6:42 AM
Subject: Re: [UHFSDR] New file uploaded to UHFSDR

Very well done.
The only thing I never liked has been the coax link above the board seems like it could get in the way and I've mounted it underneath on my 2 builds.
73 ... Sid.

On 15/06/12 08:06, UHFSDR@yahoogroups.com wrote:

>
>Hello,
>
>This email message is a notification to let you know that
>a file has been uploaded to the Files area of the UHFSDR
>group.
>
>File : /UHFSDR Documentation /UHF_SDR Assembly Manual-with SV1OBT suggestions.doc
>Uploaded by : brainerdd <mailto:dave%40wb6dhw.com>
>Description : Assembly file with photos
>
>You can access this file at the URL:
>http://groups.yahoo.com/group/UHFSDR/files/UHFSDR%20Documentation%20/UHF_SDR%20Assembly%20Manual-with%20SV1OBT%20suggestions.doc
>
>To learn more about file sharing for your group, please visit:
>http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
>Regards,
>
>brainerdd <mailto:dave%40wb6dhw.com>
>
>
>

-- Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1002. Re: [UHFSDR] New file uploaded to UHFSDR

Yahoo group: UHFSDR
Date: 2012-06-15 15:14:30 UTC
From: Sid Boyce
Topic: 2 Message: 1002

I totally agree, above board it looks like an unwanted appendage.

Yesterday I replaced the BGA612 with a SPF-5043ZDS the second one
leaving the 120 Ohm resistor in place but I haven't done any testing,
waiting on a Widget which should appear in a few days.

On the first one I have removed the LM7804 and replaced it with an off
board LM338 with a heatsink and fan to power the UHFSDR and Widget.
773 ... Sid.

On 15/06/12 15:21, Charles Nolin wrote:
> Hello Sid,
> I will chime in on your comment, I also put a small RG178, coax jumper on
> the bottom side. I didn't like it on top, on my two completed UHFSDR
> radio's. They are both completed and running. What a fantastic radio.
> Chuck Nolin
> WA6LTV/4
>
> *From:* Sid Boyce <sboyce@...>
> *To:* UHFSDR@yahoogroups.com
> *Sent:* Friday, June 15, 2012 6:42 AM
> *Subject:* Re: [UHFSDR] New file uploaded to UHFSDR
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> Very well done.
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>> Hello,
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>> You can access this file at the URL:
>> http://groups.yahoo.com/group/UHFSDR/files/UHFSDR%20Documentation%20/UHF_SDR%20Assembly
%20Manual-with%20SV1OBT%20suggestions.doc

>>
>>
>> To learn more about file sharing for your group, please visit:
>> http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
>> Regards,
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>> brainerdd <mailto:dave%40wb6dhw.com>
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Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1003. Re: [UHFSDR] UHFSDR Kit step 72 not changing frequency

Yahoo group: UHFSDR
Date: 2012-06-15 15:50:03 UTC
From: MIKE DURKIN
Topic: 993 Message: 1003

Do you have more than one set of pullup resistors between the controller and AduM1251 ? You only want one set. I remove/omit the pullup resistors on the UHFSDR, the ones between the AdUm1251 and the header, keeping the pullup on the controller pcb.

Mike KC7NOA

-----Original Message-----

From: Keenan Tims
Sent: 15 Jun 2012 06:52:07 GMT
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] UHFSDR Kit step 72 not changing frequency

I'm not sure if it's the same problem you're having or something else, but my ADuM1251 is definietly not working. I've currently got my I2C controller hooked up directly to the Si570 and it's working that way.

In my case the problem seems to be that the ADuM1251 works in the controller->Si570 direction, but the ACKs do not get forwarded back. As in your case, the signals on the Si570 look normal, but the missing ACK is noticed on the controller side. Try comparing the two SDA pins on the ADuM, they should be identical, if not you're having a similar problem as me. Probably also worth trying the controller hooked directly to the Si570 test points (mind that the maximum voltage here is probably 3.3V) just to make sure it's not a software/interface problem.

I've not yet had a chance to cut the chip off the board and replace it, but I'm pretty confident that's where the problem lies, there's really no other explanation for it.

Keenan VE7XEN

On 2012-06-14 11:25 PM, Jim wrote:
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> I have a problem with the Si570 not changing frequency when programmed
> to do so. Has anyone else run into this problem in step 72? After many
> hours of troubleshooting I conclude that there is either something
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> The SDA and SCL i2c signals at the Si570 look ok on my scope. I was
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> Address, and Data writes. I even changed the code to allow reading of

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> to 20MHz) and does not change when a value is entered in the GUI. Has
> anyone had this experience in building the kit? Does anyone have
> source code for a PIC that could be used to test the Si570 operation?
>
> Thanks and 73,
> Jim Brennan KJ6VRI
>
>

1004. My new SDR using UHFSDR+USB2SDR

Yahoo group: UHFSDR
Date: 2012-06-15 17:16:26 UTC
From: SW1IXP
Topic: 1004 Message: 1004

Hi all!

I have just uploaded some photos in the photos section of this group (My UHFSDR+USB2SDR by SV1IXP). It is my new homebrewed transceiver covering 160 to 10 meters with 100W (and very soon it will cover 2m and 70cm, I am working on it right now). Shortly I will also post a general description of my setup.

73 de SV1IXP

1005. Re: [UHFSDR] Re: Starter guide for DSP software

Yahoo group: UHFSDR
Date: 2012-06-15 17:20:13 UTC
From: Dave
Topic: 968 Message: 1005

Charlie:
Two signals 90 degrees apart and equal amplitude indicate the UHFSDR is working correctly. The UHF_SDR does use X2.
The hump is an indication of a ground loop.
Sounds like only one channel is going through the sound card.

Dave - WB6DHW
<http://wb6dhw.com>

On 6/15/2012 2:36 AM, vk3nx wrote:
>
> Hi Larry and Dave...
> I have tried the "IQ correction".....but perhaps a bit "hastily" so I
> will try to make small adjustments and check if this helps.
>
> I also tried "Rocky" and the "image" 18 kHz away, is still there and
> is obvious as I tune signals.
>
> Can I just confirm something..... If my I and Q channels on the
> J2 connector are 90 degrees out of phase..... which they are as
> measured on my oscilloscope, then the UHF_SDR board is all OK and
> nothing else needs checking?
> Also confirm please that the UHF_SDR does use X2 LO as opposed to X4
> as most other programs like rocky need?
>
> Thanks again guys for your help. I am sure I have built the board OK
> and I can tune signals but the image is "annoying"..... Also I see
> that there is a real "hump" around the centre frequncy many dB's above
> the noise floo, several kHz wide and "notched" at the centre..... Is
> this right?
>
> 73
> Charlie
> VK3NX
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
> w9amr@... wrote:
> >
> > Hi Charlie
> >
> > Look on the setup/audio tab and there should be a IQ corr
> (correction) box.
> > Some of the Soundblaster cards require it.
> >
> > If you are using a laptop most don't have a stereo line it. Check

> the sound
> > control panel and if it does make sure stereo is selected.
> >
> > This may be all old news if you have tried this. But hopefully it
> helps in
> > some way.
> >
> > Larry W9AMR
> >
> >
> > In a message dated 6/14/2012 6:13:30 P.M. Eastern Daylight Time,
> > ibnkarim@... writes:
> >
> >
> >
> >
> > Hi Dave,
> > I'm not sure! Do you mean on the UHF_SDR board or in the confuser?
> > I can open up the confuser and hopefully see which chip is on the
> > soundcard.
> > Were do I cahnge the "offset correcton"? Is that the "IQ" correction in
> > the PSDR setup tabs?
> >
> > Many Thanks
> > 73
> > Charlie
> >
> > --- In _UHFSDR@yahoogroups.com <mailto:_UHFSDR%40yahoogroups.com>_
> (mailto:UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>) , Dave
> > <dave@> wrote:
> > >
> > > Charlie:
> > > What A/D card are you using. Some cards require setting an offset
> > > between the I and Q.
> > >
> > > Dave - WB6DHW
> > > <_http://wb6dhw.com_ (http://wb6dhw.com/) >
> > >
> > > On 6/14/2012 3:22 AM, vk3nx wrote:
> > > >
> > > >
> > > > Hi guys, thanks for all the comments and suggestions.
> > > > Today I had a good look at the setup.
> > > > I am still unable to get rid of the images. I rechecked the
> board and
> > > > the "line out" sigs. As per the build manual with the Si570
> operating
> > > > at it's default frequency of 19.982MHz I inject a signal of
> 10.01MHz
> > > > into the antenna port and on the Line Out channels I have 10 KHz

> > > > signal 90 degrees apart. So I think my board is OK(?)
> > > > I tried everything in Power SDR (latest version)to do with image
> > > > rejection and no improvement. I tried swapping the I Q lines also
> > > > I removed (shorted) one channel at a time and found NO
> difference. My
> > > > conclusion is that the "stereo" line in on the "Realtek Sound card"
> > > > may not be so stereo..... Is this the correct inference? I then
> > > > tried my Sound blaster xfi external USB sound card and had
> exactly the
> > > > same results.
> > > >
> > > > A couple of questions.....
> > > > 1. If the I and Q on the UHF SDR line out boards are 90 degrees
> out of
> > > > phase can I conclude that I have the board operating correctly?
> Ithink
> > > > so but perhaps I am missing something.
> > > > 2. Has anyone any experience with the Realtek sound cards and the
> > > > Sound Blaster XFI external USB units.....Are any of these adequate
> > > > for an SDR? If not what should I invest my money in?
> > > >
> > > > Many thanks in advance for your help
> > > >
> > > > 73
> > > > Charlie
> > > > VK3NX
> > > >
> > > >
> > >
> >
>
>
>

1006. Re: UHFSDR Kit step 72 not changing frequency

Yahoo group: UHFSDR
Date: 2012-06-15 17:35:15 UTC
From: Jim
Topic: 993 Message: 1006

Mike, I am using only one set of pullups between AdUm1251 and header. The header is connected to the PC parallel port. I was not seeing ACKs out of the Si570 so I put 0.001uF caps across the 1K pullups (R61 and R62) between AdUm1251 - Si570, and finally did get the ACKs. So there was some unseen glitching on the output side of AdUm1251. Since I am now getting ACKs back with Slave and Byte addresses, it appears that part of the software/hardware is working. As mentioned earler, I tried register reads (in my re-compiled program) and got data back from the Si570 as monitored on the SDA line at TP2.

Keenan, you have a controller that can be hooked directly to the Si570 for testing and this would be a good way to confirm everything (ACKs and operation) works. I am using a PC Parallel port, so will try comparing the ACKs out of Si570 and AdUm1251 back to PC (to test the AdUm1251), but I don't think that this is my problem. The program Si570.exe (as well as the compiled version) are a one-way write to the Si570. I am beginning to think, as you, that the Si570 needs replacement. This task might be tricky, however. I wicked all solder off of the part but it still sticks to the PCB. The Si570 spec sheet states (Table 10) that maximum soldering temp Tpeak is 260 C for 20 to 40 seconds. I used regular solder and temp of 300 C. This may be the cause of my problems. The soldering temperature should be noted in the assembly instructions. At this point all continuity and all signals still get to the gold cutouts on the side of part so I will retry my testing. I would like to try a controller vs. PC, where can I get that board?

Jim KJ6VRI

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
> Do you have more than one set of pullup resistors between the controller and AduM1251 ? You only want one set. I remove/omit the pullup resistors on the UHFSDR, the ones between the AdUm1251 and the header, keeping the pullup on the controller pcb.
>
> Mike KC7NOA
>
> -----Original Message-----
>
> From: Keenan Tims
> Sent: 15 Jun 2012 06:52:07 GMT
> To: UHFSDR@yahoogroups.com
> Subject: Re: [UHFSDR] UHFSDR Kit step 72 not changing frequency
>
> I'm not sure if it's the same problem you're having or something else,
> but my ADuM1251 is definietly not working. I've currently got my I2C
> controller hooked up directly to the Si570 and it's working that way.
>
> In my case the problem seems to be that the ADuM1251 works in the
> controller->Si570 direction, but the ACKs do not get forwarded back. As
> in your case, the signals on the Si570 look normal, but the missing ACK
> is noticed on the controller side. Try comparing the two SDA pins on the

> ADuM, they should be identical, if not you're having a similar problem
> as me. Probably also worth trying the controller hooked directly to the
> Si570 test points (mind that the maximum voltage here is probably 3.3V)
> just to make sure it's not a software/interface problem.
>
> I've not yet had a chance to cut the chip off the board and replace it,
> but I'm pretty confident that's where the problem lies, there's really
> no other explanation for it.
>
> Keenan VE7XEN
>
> On 2012-06-14 11:25 PM, Jim wrote:
> >
> >
> > I have a problem with the Si570 not changing frequency when programmed
> > to do so. Has anyone else run into this problem in step 72? After many
> > hours of troubleshooting I conclude that there is either something
> > wrong with my Si570 chip, or the program Si570.exe (and compiled
> > version). One problem along the way was that the PC parallel port
> > pin-14 (Autofeed) does not have sufficient current sourcing for U13
> > (ADUM1251), so I am using a 3.3 v battery pack.
> >
> > The SDA and SCL i2c signals at the Si570 look ok on my scope. I was
> > able to get the source code for Si570.c and compile it. I verified
> > that the ACK was being generated following Slave Address, Byte
> > Address, and Data writes. I even changed the code to allow reading of
> > some registers and the SDA line could be seen with data coming back
> > from the Si570.
> >
> > The problem is that the frequency remains fixed at the default (close
> > to 20MHz) and does not change when a value is entered in the GUI. Has
> > anyone had this experience in building the kit? Does anyone have
> > source code for a PIC that could be used to test the Si570 operation?
> >
> > Thanks and 73,
> > Jim Brennan KJ6VRI
> >
> >
>

1007. Re: [UHFSDR] Re: New file uploaded to UHFSDR

Yahoo group: UHFSDR
Date: 2012-06-15 17:39:42 UTC
From: Dave
Topic: 2 Message: 1007

Bob:
SV1OBT is responsible for the excellent photos.
Dave - WB6DHW
<http://wb6dhw.com>

On 6/15/2012 6:35 AM, Bob Hillard wrote:
>
> Dave,
>
> This is an excellent improvement to the assembly instructions. I found
> that I spent a lot of time hunting down the location of components on
> the board.
>
> Bob WA6UFQ
>
>

1008. Re: [UHFSDR] Re: UHFSDR Kit step 72 not changing frequency

Yahoo group: UHFSDR
Date: 2012-06-15 17:48:10 UTC
From: John Greusel
Topic: 993 Message: 1008

Jim,
I lifted this from the softrock group. If nothing else it may aid you in removing the chip-usually the SI570 is not the least bit fragile.

I am building an Ensemble RX VHF unit.
After completing the USB/LO stage,
I have encountered a no frequency control problem.
I went through all the CFGSR tests with no success.
Then, I used My hot-air gun to heat the Si570 area
to make sure that the chip pads are soldered correctly.
That has solved the problem.
I have decided to share that information, in order
to support the notion: "most of the problems are with soldering the Si570 chip".
Good luck to all the builders!

David, 4X1DG

John
KC9OJV

From: Jim <jimbr99@...>
To: UHFSDR@...m
Sent: Friday, June 15, 2012 12:35 PM
Subject: [UHFSDR] Re: UHFSDR Kit step 72 not changing frequency

Mike, I am using only one set of pullups between AdUm1251 and header. The header is connected to the PC parallel port. I was not seeing ACKs out of the Si570 so I put 0.001uF caps across the 1K pullups (R61 and R62) between AdUm1251 - Si570, and finally did get the ACKs. So there was some unseen glitching on the output side of AdUm1251. Since I am now getting ACKs back with Slave and Byte addresses, it appears that part of the software/hardware is working. As mentioned earler, I tried register reads (in my re-compiled program) and got data back from the Si570 as monitored on the SDA line at TP2.

Keenan, you have a controller that can be hooked directly to the Si570 for testing and this would be a good way to confirm everything (ACKs and operation) works. I am using a PC Parallel port, so will try comparing the ACKs out of Si570 and AdUm1251 back to PC (to test the AdUm1251), but I don't think that this is my problem. The program Si570.exe (as well as the compiled version) are a one-way write to the Si570. I am beginning to think, as you, that the Si570 needs replacement. This task might be tricky, however. I wicked all solder off of the part but it still sticks to the PCB. The Si570 spec sheet states (Table 10) that maximum soldering temp Tpeak is 260 C for 20 to 40 seconds. I used regular solder and temp of 300 C. This may be the cause of my problems. The soldering temperature should be noted in the assembly instructions. At this point all continuity and all signals still get to the gold cutouts on the side of part so I will retry my
testing. I would like to try a controller vs. PC, where can I get that board?

Jim KJ6VRI

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
> Do you have more than one set of pullup resistors between the controller and AduM1251 ?
You only want one set. I remove/omit the pullup resistors on the UHFSDR, the ones between the AdUm1251 and the header, keeping the pullup on the controller pcb.
>
> Mike KC7NOA
>
> -----Original Message-----
>
> From: Keenan Tims
> Sent: 15 Jun 2012 06:52:07 GMT
> To: UHFSDR@yahoogroups.com
> Subject: Re: [UHFSDR] UHFSDR Kit step 72 not changing frequency
>
> I'm not sure if it's the same problem you're having or something else,
> but my ADuM1251 is definietly not working. I've currently got my I2C
> controller hooked up directly to the Si570 and it's working that way.
>
> In my case the problem seems to be that the ADuM1251 works in the
> controller->Si570 direction, but the ACKs do not get forwarded back. As
> in your case, the signals on the Si570 look normal, but the missing ACK
> is noticed on the controller side. Try comparing the two SDA pins on the
> ADuM, they should be identical, if not you're having a similar problem
> as me. Probably also worth trying the controller hooked directly to the
> Si570 test points (mind that the maximum voltage here is probably 3.3V)
> just to make sure it's not a software/interface problem.
>
> I've not yet had a chance to cut the chip off the board and replace it,
> but I'm pretty confident that's where the problem lies, there's really
> no other explanation for it.
>
> Keenan VE7XEN
>
> On 2012-06-14 11:25 PM, Jim wrote:
> >
> >
> > I have a problem with the Si570 not changing frequency when programmed
> > to do so. Has anyone else run into this problem in step 72? After many
> > hours of troubleshooting I conclude that there is either something
> > wrong with my Si570 chip, or the program Si570.exe (and compiled
> > version). One problem along the way was that the PC parallel port
> > pin-14 (Autofeed) does not have sufficient current sourcing for U13
> > (ADUM1251), so I am using a 3.3 v battery pack.
> >
> > The SDA and SCL i2c signals at the Si570 look ok on my scope. I was
> > able to get the source code for Si570.c and compile it. I verified
> > that the ACK was being generated following Slave Address, Byte
> > Address, and Data writes. I even changed the code to allow reading of

> > some registers and the SDA line could be seen with data coming back
> > from the Si570.
> >
> > The problem is that the frequency remains fixed at the default (close
> > to 20MHz) and does not change when a value is entered in the GUI. Has
> > anyone had this experience in building the kit? Does anyone have
> > source code for a PIC that could be used to test the Si570 operation?
> >
> > Thanks and 73,
> > Jim Brennan KJ6VRI
> >
> >
>

1009. Re: [UHFSDR] New file uploaded to UHFSDR

Yahoo group: UHFSDR
Date: 2012-06-15 17:46:34 UTC
From: Dave
Topic: 2 Message: 1009

Sid:
I would like to know how well the SPF-5043 works at 80 meters. If it
works OK there, I will substitute it for the BGA-612 in my minikit.

Dave - WB6DHW
<http://wb6dhw.com>

On 6/15/2012 8:14 AM, Sid Boyce wrote:
>
> I totally agree, above board it looks like an unwanted appendage.
>
> Yesterday I replaced the BGA612 with a SPF-5043ZDS the second one
> leaving the 120 Ohm resistor in place but I haven't done any testing,
> waiting on a Widget which should appear in a few days.
>
> On the first one I have removed the LM7804 and replaced it with an off
> board LM338 with a heatsink and fan to power the UHFSDR and Widget.
> 773 ... Sid.
>
> On 15/06/12 15:21, Charles Nolin wrote:
>> Hello Sid,
>> I will chime in on your comment, I also put a small RG178, coax jumper on
>> the bottom side. I didn't like it on top, on my two completed UHFSDR
>> radio's. They are both completed and running. What a fantastic radio.
>> Chuck Nolin
>> WA6LTV/4
>>
>> *From:* Sid Boyce <sboyce@...>
>> *To:* UHFSDR@yahoogroups.com
>> *Sent:* Friday, June 15, 2012 6:42 AM
>> *Subject:* Re: [UHFSDR] New file uploaded to UHFSDR
>>
>> Very well done.
>> The only thing I never liked has been the coax link above the board
>> seems like it could get in the way and I've mounted it underneath on
>> my 2 builds.
>> 73 ... Sid.
>>
>> On 15/06/12 08:06, UHFSDR@yahoogroups.com
>> <mailto:UHFSDR@yahoogroups.com> wrote:
>>>
>>> Hello,
>>>
>>> This email message is a notification to let you know that
>>> a file has been uploaded to the Files area of the UHFSDR

>>> group.
>>>
>>> File : /UHFSDR Documentation /UHF_SDR Assembly Manual-with SV1OBT
>>> suggestions.doc
>>> Uploaded by : brainerdd <mailto:dave%40wb6dhw.com>
>>> Description : Assembly file with photos
>>>
>>> You can access this file at the URL:
>>> http://groups.yahoo.com/group/UHFSDR/files/UHFSDR%20Documentation%20/UHF_SDR%20Assembl
y%20Manual-with%20SV1OBT%20suggestions.doc
>>>
>>>
>>> To learn more about file sharing for your group, please visit:
>>> http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
>>> Regards,
>>>
>>> brainerdd <mailto:dave%40wb6dhw.com>
>>>
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>

1010. Re: [UHFSDR] Re: UHFSDR Kit step 72 not changing frequency

Yahoo group: UHFSDR
Date: 2012-06-15 17:49:47 UTC
From: Keenan Tims
Topic: 993 Message: 1010

I am using a simple ATtiny85 circuit modified (ie. simplified) from that used in the Softrock USB-I2C with the PE0FKO firmware. It's basically just the AVR, a 3V3 reg and the USB connector so I built it on proto board.

http://wb5rvz.com/sdr/usb_i2c/
http://pe0fko.nl/SR-V9-Si570/

You'll need an AVR programmer though, or maybe you can buy preprogrammed chips somewhere.

My Si570 saw a lot of abuse during soldering and seems to work normally, so I don't think you'd have destroyed it that easily.

Keenan VE7XEN

On 2012-06-15 10:35 AM, Jim wrote:
>
>
> I would like to try a controller vs. PC, where can I get that board?
>
> Jim KJ6VRI
>

1011. RE: [UHFSDR] Re: UHFSDR Kit step 72 not changing frequency

Yahoo group: UHFSDR
Date: 2012-06-15 18:47:20 UTC
From: MIKE DURKIN
Topic: 993 Message: 1011

Im using a QRP2000 pcb with a replacement AVR with PE0FKO 15.15 firmware to controll a Si570 on a UHFSDR !!!! Ill soon be selling the QRP2000 with the PE0FKO15.15 as soon as i get a cloned UBW32 running .... Mike KC7NOATo: UHFSDR@yahoogroups.com
From: jimbr99@...
Date: Fri, 15 Jun 2012 17:35:15 +0000
Subject: [UHFSDR] Re: UHFSDR Kit step 72 not changing frequency

Mike, I am using only one set of pullups between AdUm1251 and header. The header is connected to the PC parallel port. I was not seeing ACKs out of the Si570 so I put 0.001uF caps across the 1K pullups (R61 and R62) between AdUm1251 - Si570, and finally did get the ACKs. So there was some unseen glitching on the output side of AdUm1251. Since I am now getting ACKs back with Slave and Byte addresses, it appears that part of the software/hardware is working. As mentioned earler, I tried register reads (in my re-compiled program) and got data back from the Si570 as monitored on the SDA line at TP2.

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Jim KJ6VRI

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:

>

> Do you have more than one set of pullup resistors between the controller and AduM1251 ? You only want one set. I remove/omit the pullup resistors on the UHFSDR, the ones between the AdUm1251 and the header, keeping the pullup on the controller pcb.

>

> Mike KC7NOA

>

> -----Original Message-----

>

> From: Keenan Tims

> Sent: 15 Jun 2012 06:52:07 GMT

> To: UHFSDR@yahoogroups.com

> Subject: Re: [UHFSDR] UHFSDR Kit step 72 not changing frequency

>

> I'm not sure if it's the same problem you're having or something else,

> but my ADuM1251 is definietly not working. I've currently got my I2C

> controller hooked up directly to the Si570 and it's working that way.

>

> In my case the problem seems to be that the ADuM1251 works in the

> controller->Si570 direction, but the ACKs do not get forwarded back. As

> in your case, the signals on the Si570 look normal, but the missing ACK

> is noticed on the controller side. Try comparing the two SDA pins on the

> ADuM, they should be identical, if not you're having a similar problem

> as me. Probably also worth trying the controller hooked directly to the

> Si570 test points (mind that the maximum voltage here is probably 3.3V)

> just to make sure it's not a software/interface problem.

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> I've not yet had a chance to cut the chip off the board and replace it,

> but I'm pretty confident that's where the problem lies, there's really

> no other explanation for it.

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> Keenan VE7XEN

>

> On 2012-06-14 11:25 PM, Jim wrote:

> >

> >

> > I have a problem with the Si570 not changing frequency when programmed

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> > wrong with my Si570 chip, or the program Si570.exe (and compiled

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> > pin-14 (Autofeed) does not have sufficient current sourcing for U13

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> > Address, and Data writes. I even changed the code to allow reading of

> > some registers and the SDA line could be seen with data coming back

> > from the Si570.

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> > The problem is that the frequency remains fixed at the default (close

> > to 20MHz) and does not change when a value is entered in the GUI. Has

> > anyone had this experience in building the kit? Does anyone have

> > source code for a PIC that could be used to test the Si570 operation?

> >

> > Thanks and 73,

> > Jim Brennan KJ6VRI

> >

> >

>

1012. Re: Starter guide for DSP software

Yahoo group: UHFSDR
Date: 2012-06-16 03:06:39 UTC
From: vk3nx
Topic: 968 Message: 1012

Hi Dave, Fabulous! That information is a BIG help to me.Thanks very much. I will explore the sound card part of the problem further. I feel confident that the board is working correctly as I have also built up an SDR as a panadapter for my FT2000 and am seeing exactly the same problems.

I am new to this stuff, and the learning curve s steep but a lot of fun.... the advice from the group has been invaluable.....

73
Charlie
VK3NX

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> Charlie:
> Two signals 90 degrees apart and equal amplitude indicate the UHFSDR is
> working correctly. The UHF_SDR does use X2.
> The hump is an indication of a ground loop.
> Sounds like only one channel is going through the sound card.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 6/15/2012 2:36 AM, vk3nx wrote:
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> > Hi Larry and Dave...
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> > will try to make small adjustments and check if this helps.
> >
> > I also tried "Rocky" and the "image" 18 kHz away, is still there and
> > is obvious as I tune signals.
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> > Can I just confirm something..... If my I and Q channels on the
> > J2 connector are 90 degrees out of phase..... which they are as
> > measured on my oscilloscope, then the UHF_SDR board is all OK and
> > nothing else needs checking?
> > Also confirm please that the UHF_SDR does use X2 LO as opposed to X4
> > as most other programs like rocky need?
> >
> > Thanks again guys for your help. I am sure I have built the board OK
> > and I can tune signals but the image is "annoying"..... Also I see
> > that there is a real "hump" around the centre frequncy many dB's above
> > the noise floo, several kHz wide and "notched" at the centre..... Is
> > this right?
> >
> > 73

> > Charlie
> > VK3NX
> >
> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
> > w9amr@ wrote:
> > >
> > > Hi Charlie
> > >
> > > Look on the setup/audio tab and there should be a IQ corr
> > (correction) box.
> > > Some of the Soundblaster cards require it.
> > >
> > > If you are using a laptop most don't have a stereo line it. Check
> > the sound
> > > control panel and if it does make sure stereo is selected.
> > >
> > > This may be all old news if you have tried this. But hopefully it
> > helps in
> > > some way.
> > >
> > > Larry W9AMR
> > >
> > >
> > > In a message dated 6/14/2012 6:13:30 P.M. Eastern Daylight Time,
> > > ibnkarim@ writes:
> > >
> > >
> > >
> > >
> > > Hi Dave,
> > > I'm not sure! Do you mean on the UHF_SDR board or in the confuser?
> > > I can open up the confuser and hopefully see which chip is on the
> > > soundcard.
> > > Were do I cahnge the "offset correcton"? Is that the "IQ" correction in
> > > the PSDR setup tabs?
> > >
> > > Many Thanks
> > > 73
> > > Charlie
> > >
> > > --- In _UHFSDR@yahoogroups.com <mailto:_UHFSDR%40yahoogroups.com>_
> > (mailto:UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>) , Dave
> > > <dave@> wrote:
> > > >
> > > > Charlie:
> > > > What A/D card are you using. Some cards require setting an offset
> > > > between the I and Q.
> > > >
> > > > Dave - WB6DHW
> > > > <_http://wb6dhw.com_ (http://wb6dhw.com/) >

> > > >
> > > > On 6/14/2012 3:22 AM, vk3nx wrote:
> > > > >
> > > > >
> > > > > Hi guys, thanks for all the comments and suggestions.
> > > > > Today I had a good look at the setup.
> > > > > I am still unable to get rid of the images. I rechecked the
> > board and
> > > > > the "line out" sigs. As per the build manual with the Si570
> > operating
> > > > > at it's default frequency of 19.982MHz I inject a signal of
> > 10.01MHz
> > > > > into the antenna port and on the Line Out channels I have 10 KHz
> > > > > signal 90 degrees apart. So I think my board is OK(?)
> > > > > I tried everything in Power SDR (latest version)to do with image
> > > > > rejection and no improvement. I tried swapping the I Q lines also
> > > > > I removed (shorted) one channel at a time and found NO
> > difference. My
> > > > > conclusion is that the "stereo" line in on the "Realtek Sound card"
> > > > > may not be so stereo..... Is this the correct inference? I then
> > > > > tried my Sound blaster xfi external USB sound card and had
> > exactly the
> > > > > same results.
> > > > >
> > > > > A couple of questions.....
> > > > > 1. If the I and Q on the UHF SDR line out boards are 90 degrees
> > out of
> > > > > phase can I conclude that I have the board operating correctly?
> > Ithink
> > > > > so but perhaps I am missing something.
> > > > > 2. Has anyone any experience with the Realtek sound cards and the
> > > > > Sound Blaster XFI external USB units.....Are any of these adequate
> > > > > for an SDR? If not what should I invest my money in?
> > > > >
> > > > > Many thanks in advance for your help
> > > > >
> > > > > 73
> > > > > Charlie
> > > > > VK3NX
> > > > >
> > > > >
> > > >
> > >
> >
> >
>

1013. Re: My new SDR using UHFSDR+USB2SDR

Yahoo group: UHFSDR
Date: 2012-06-16 17:59:53 UTC
From: sv1obt
Topic: 1004 Message: 1013

Hi,

I am working towards a complete rig too. I haven't done anything for 2m and 70cm yet, but I do have the 1.4GHz si570 and looking forward to build an all-band SDR rig.
My hardware configuration is the following
USB2SDR codec board
UHFSDR
a homebrew BPF filter for 10m-12m only (just for tests at the moment)
a 10w linear amp.
a custom TX/RX switching circuit.

regards
Dimitris
73, SV1OBT

--- In UHFSDR@yahoogroups.com, "SW1IXP" <kostas.ioannidis@...> wrote:
>
> Hi all!
>
> I have just uploaded some photos in the photos section of this group (My UHFSDR+USB2SDR by SV1IXP). It is my new homebrewed transceiver covering 160 to 10 meters with 100W (and very soon it will cover 2m and 70cm, I am working on it right now). Shortly I will also post a general description of my setup.
>
> 73 de SV1IXP
>

1014. More details of my SDR!

Yahoo group: UHFSDR
Date: 2012-06-17 21:57:00 UTC
From: Kostas Ioannidis
Topic: 1014 Message: 1014

Software Defined Radio, a successful story

This transceiver is a successful implementation based on the core of UHFSDR (by WB6DHW)plus USB2SDR boards (by SV1EIA). It covers all the HF bands with 100W of transmitting power (in the near future it will also cover 2 meters and 70 centimeters with 50W of power).
In the HF receiving section there are six bandpass filters (octave, 7 poles) by WB6DHW. In the transmitting section there is the driver section consisting of the QRPProjects QRP-PA 2008 which is followed by the AN762 (by Communication Concepts) power amplifier. The PA output is then low pass filtered by the HFProjects LPF. The output from the LPF board is then connected to the T/R relay which is a common signal relay. The antenna connector is a PL. The interconnecting coaxial cable is RG-174 terminated with SMA connectors. All the control signals are derived from the USB2SDR board (PTT, filter selection, local oscillator frequency).
A great emphasis has been placed on the intergrated modular construction of the radio. The enclosure is custom built from 1mm sheet metal and is painted black. There is the minimal amount of input-output connectors consisting of the power input in the back (uses Anderson Powerpole chassis connectors) and the usb connectivity (from USB2SDR to the PC which runs PowerSdr-IQ) as well as a ¼ stereo TRS connector for the final audio output (coming from USB2SDR). In the front there is a RJ-45 connector for the microphone which also accepts a morse key (straight or paddled) which ends at the USB2SDR board again and an illuminated power button. All the connectors are of high quality from NEUTRIK.
Internally the enclosure is divided into 3 compartments. The lower compartment hosts the UHFSDR and the USB2SDR boards. The middle compartment hosts the HF boards. The upper will host the V/U part of the radio (preamps, Pa’s and signal switching).The HF PA protrudes from the middle compartment due to size.
All the boards are enclosed in shielded boxes with sma connectors for the rf signaling and DB9’s for the control signals.
I will post a more detailed description+new pictures when time allows it! Thanks for your reading!

73 de SV1IXP

1015. parts list

Yahoo group: UHFSDR
Date: 2012-06-18 01:07:44 UTC
From: firedjl
Topic: 1015 Message: 1015

Is there a Mouser parts list available? if so can I get pointed to it?

I have the mini-kit of parts and need the rest.
thanks!
Don

1016. Re: parts list

Yahoo group: UHFSDR
Date: 2012-06-18 01:30:11 UTC
From: firedjl
Topic: 1015 Message: 1016

Sorry, I found digikey list and ordered it. doh.
Don

--- In UHFSDR@yahoogroups.com, "firedjl" <djl@...> wrote:
>
> Is there a Mouser parts list available? if so can I get pointed to it?
>
> I have the mini-kit of parts and need the rest.
> thanks!
> Don
>

1017. Re: Starter guide for DSP software

Yahoo group: UHFSDR
Date: 2012-06-18 09:52:09 UTC
From: vk3nx
Topic: 968 Message: 1017

Hi Dave and others following this thread (read: tale of woe!)

Well..success!!
It was a faulty audio cable connector that was inadvaertently shorting out the I and Q channels. A quick change out and everything is behaving as it should.

I ran the SDR # program and that was a big help in understanding the image problem. It also helped me see that a lot of the "crud" on the display was because I was overdriving the sound card. according to SDR# I have only a small fraction of a degree difference B/W the I and Q being 90 deg apart....

I spent several hrs playing with Power SDR and getting a feel for what it can do and am now very satisfied.

Thanks Dave for all your help (and the design work!!) and to everyone else for their suggestions in fault finiding.....

73
Charlie
VK3NX

--- In UHFSDR@yahoogroups.com, "vk3nx" <ibnkarim@...> wrote:
>
> Hi Dave, Fabulous! That information is a BIG help to me.Thanks very much. I will explore the sound card part of the problem further. I feel confident that the board is working correctly as I have also built up an SDR as a panadapter for my FT2000 and am seeing exactly the same problems.
>
> I am new to this stuff, and the learning curve s steep but a lot of fun.... the advice from the group has been invaluable.....
>
> 73
> Charlie
> VK3NX
>
> --- In UHFSDR@yahoogroups.com, Dave <dave@> wrote:
> >
> > Charlie:
> > Two signals 90 degrees apart and equal amplitude indicate the UHFSDR is
> > working correctly. The UHF_SDR does use X2.
> > The hump is an indication of a ground loop.
> > Sounds like only one channel is going through the sound card.
> >
> > Dave - WB6DHW
> > <http://wb6dhw.com>
> >

> > On 6/15/2012 2:36 AM, vk3nx wrote:
> > >
> > > Hi Larry and Dave...
> > > I have tried the "IQ correction".....but perhaps a bit "hastily" so I
> > > will try to make small adjustments and check if this helps.
> > >
> > > I also tried "Rocky" and the "image" 18 kHz away, is still there and
> > > is obvious as I tune signals.
> > >
> > > Can I just confirm something..... If my I and Q channels on the
> > > J2 connector are 90 degrees out of phase..... which they are as
> > > measured on my oscilloscope, then the UHF_SDR board is all OK and
> > > nothing else needs checking?
> > > Also confirm please that the UHF_SDR does use X2 LO as opposed to X4
> > > as most other programs like rocky need?
> > >
> > > Thanks again guys for your help. I am sure I have built the board OK
> > > and I can tune signals but the image is "annoying"..... Also I see
> > > that there is a real "hump" around the centre frequncy many dB's above
> > > the noise floo, several kHz wide and "notched" at the centre..... Is
> > > this right?
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> > > Charlie
> > > VK3NX
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> > > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
> > > w9amr@ wrote:
> > > >
> > > > Hi Charlie
> > > >
> > > > Look on the setup/audio tab and there should be a IQ corr
> > > (correction) box.
> > > > Some of the Soundblaster cards require it.
> > > >
> > > > If you are using a laptop most don't have a stereo line it. Check
> > > the sound
> > > > control panel and if it does make sure stereo is selected.
> > > >
> > > > This may be all old news if you have tried this. But hopefully it
> > > helps in
> > > > some way.
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> > > > Larry W9AMR
> > > >
> > > >
> > > > In a message dated 6/14/2012 6:13:30 P.M. Eastern Daylight Time,
> > > > ibnkarim@ writes:
> > > >
> > > >

> > > >
> > > >
> > > > Hi Dave,
> > > > I'm not sure! Do you mean on the UHF_SDR board or in the confuser?
> > > > I can open up the confuser and hopefully see which chip is on the
> > > > soundcard.
> > > > Were do I cahnge the "offset correcton"? Is that the "IQ" correction in
> > > > the PSDR setup tabs?
> > > >
> > > > Many Thanks
> > > > 73
> > > > Charlie
> > > >
> > > > --- In _UHFSDR@yahoogroups.com <mailto:_UHFSDR%40yahoogroups.com>_
> > > (mailto:UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>) , Dave
> > > > <dave@> wrote:
> > > > >
> > > > > Charlie:
> > > > > What A/D card are you using. Some cards require setting an offset
> > > > > between the I and Q.
> > > > >
> > > > > Dave - WB6DHW
> > > > > <_http://wb6dhw.com_ (http://wb6dhw.com/) >
> > > > >
> > > > > On 6/14/2012 3:22 AM, vk3nx wrote:
> > > > > >
> > > > > >
> > > > > > Hi guys, thanks for all the comments and suggestions.
> > > > > > Today I had a good look at the setup.
> > > > > > I am still unable to get rid of the images. I rechecked the
> > > board and
> > > > > > the "line out" sigs. As per the build manual with the Si570
> > > operating
> > > > > > at it's default frequency of 19.982MHz I inject a signal of
> > > 10.01MHz
> > > > > > into the antenna port and on the Line Out channels I have 10 KHz
> > > > > > signal 90 degrees apart. So I think my board is OK(?)
> > > > > > I tried everything in Power SDR (latest version)to do with image
> > > > > > rejection and no improvement. I tried swapping the I Q lines also
> > > > > > I removed (shorted) one channel at a time and found NO
> > > difference. My
> > > > > > conclusion is that the "stereo" line in on the "Realtek Sound card"
> > > > > > may not be so stereo..... Is this the correct inference? I then
> > > > > > tried my Sound blaster xfi external USB sound card and had
> > > exactly the
> > > > > > same results.
> > > > > >
> > > > > > A couple of questions.....
> > > > > > 1. If the I and Q on the UHF SDR line out boards are 90 degrees
> > > out of

> > > > > > phase can I conclude that I have the board operating correctly?
> > > Ithink
> > > > > > so but perhaps I am missing something.
> > > > > > 2. Has anyone any experience with the Realtek sound cards and the
> > > > > > Sound Blaster XFI external USB units.....Are any of these adequate
> > > > > > for an SDR? If not what should I invest my money in?
> > > > > >
> > > > > > Many thanks in advance for your help
> > > > > >
> > > > > > 73
> > > > > > Charlie
> > > > > > VK3NX
> > > > > >
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> > >
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>

1018. RE: [UHFSDR] Re: UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-06-20 00:43:09 UTC
From: The Silver Fox
Topic: 714 Message: 1018

The SPF5043 MMIC chips have arrived. Tomorrow, I will mail them to all who have pre-paid.

73,

Alan - W6ARH

1019. YU1AW LNA

Yahoo group: UHFSDR
Date: 2012-06-20 01:29:56 UTC
From: Kostas Ioannidis
Topic: 1019 Message: 1019

HI all!

To anyone that it is interested, I am having success with the 2m version of YU1AW's LNA using the BFG540X (the version with the 2 input coils for improved selectivity). My sensitivity has been greatly improved and now it is in par with my IC-910 (I dont have the gear to make measurements, it is a subjective observation)

Link: http://www.qsl.net/yu1aw/LNA/bfp196peng.htm

73 de SV1IXP

UHFSDR + USB2SDR + BPF/LPF + 100WPA HF/VHF/UHF

1020. 100 watt LPFB

Yahoo group: UHFSDR
Date: 2012-06-20 11:45:28 UTC
From: rune
Topic: 1020 Message: 1020

Hey

I start to build my 100 watt LPF today, have soldered all releys.
When i start to make L1 29 turns on the T50-2 toroid i am not able to get 29 turns side by side but the last two turn has to go on top.
Is this any problem ?.

73 Rune LA7THA

1021. Re: [UHFSDR] 100 watt LPFB

Yahoo group: UHFSDR
Date: 2012-06-20 15:29:25 UTC
From: Sid Boyce
Topic: 1020 Message: 1021

That's the way it's done on toroids, no problem.
73 ... Sid.

On 20/06/12 12:45, rune wrote:
>
> Hey
>
> I start to build my 100 watt LPF today, have soldered all releys.
> When i start to make L1 29 turns on the T50-2 toroid i am not able to
> get 29 turns side by side but the last two turn has to go on top.
> Is this any problem ?.
>
> 73 Rune LA7THA
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1022. Re: 100 watt LPFB

Yahoo group: UHFSDR
Date: 2012-06-20 16:22:32 UTC
From: rune
Topic: 1020 Message: 1022

Hey Sid

Thanks for info, understand you are active here to :-) Just started and next is the UHFSDR :-)

73 Rune LA7THA

--- In UHFSDR@...m, Sid Boyce <sboyce@...> wrote:
>
> That's the way it's done on toroids, no problem.
> 73 ... Sid.
>
> On 20/06/12 12:45, rune wrote:
> >
> > Hey
> >
> > I start to build my 100 watt LPF today, have soldered all releys.
> > When i start to make L1 29 turns on the T50-2 toroid i am not able to
> > get 29 turns side by side but the last two turn has to go on top.
> > Is this any problem ?.
> >
> > 73 Rune LA7THA
> >
> >
>
>
> --
> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
> Senior Staff Specialist, Cricket Coach
> Microsoft Windows Free Zone - Linux used for all Computing Tasks
>

1023. Re: [UHFSDR] Re: 100 watt LPFB

Yahoo group: UHFSDR
Date: 2012-06-20 19:08:14 UTC
From: Sid Boyce
Topic: 1020 Message: 1023

Too many projects on the go Rune.

I replaced the BGA612 with a SPF5043Z on one UHFSDR leaving the rest of
the circuit as-is but I haven't got around to checking it out yet as my
USB sound cards are a pain so I'm waiting any day now to get a
SDR-Widget to use with it.
I would like to see how it performs at HF before swapping out the BGA612
on the other one.
73 ... Sid.

On 20/06/12 17:22, rune wrote:
>
> Hey Sid
>
> Thanks for info, understand you are active here to :-) Just started
> and next is the UHFSDR :-)
>
> 73 Rune LA7THA
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Sid
> Boyce <sboyce@...> wrote:
> >
> > That's the way it's done on toroids, no problem.
> > 73 ... Sid.
> >
> > On 20/06/12 12:45, rune wrote:
> > >
> > > Hey
> > >
> > > I start to build my 100 watt LPF today, have soldered all releys.
> > > When i start to make L1 29 turns on the T50-2 toroid i am not able to
> > > get 29 turns side by side but the last two turn has to go on top.
> > > Is this any problem ?.
> > >
> > > 73 Rune LA7THA
> > >
> > >
> >
> >
> > --
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>

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1024. Re: 100 watt LPFB

Yahoo group: UHFSDR
Date: 2012-06-20 22:09:28 UTC
From: rune
Topic: 1020 Message: 1024

Hey

Ok understand, keep me posted about you expriment.

73 Rune LA7THA

--- In UHFSDR@yahoogroups.com, Sid Boyce <sboyce@...> wrote:
>
> Too many projects on the go Rune.
>
> I replaced the BGA612 with a SPF5043Z on one UHFSDR leaving the rest of
> the circuit as-is but I haven't got around to checking it out yet as my
> USB sound cards are a pain so I'm waiting any day now to get a
> SDR-Widget to use with it.
> I would like to see how it performs at HF before swapping out the BGA612
> on the other one.
> 73 ... Sid.
>
> On 20/06/12 17:22, rune wrote:
> >
> > Hey Sid
> >
> > Thanks for info, understand you are active here to :-) Just started
> > and next is the UHFSDR :-)
> >
> > 73 Rune LA7THA
> >
> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Sid
> > Boyce <sboyce@> wrote:
> > >
> > > That's the way it's done on toroids, no problem.
> > > 73 ... Sid.
> > >
> > > On 20/06/12 12:45, rune wrote:
> > > >
> > > > Hey
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> > > > I start to build my 100 watt LPF today, have soldered all releys.
> > > > When i start to make L1 29 turns on the T50-2 toroid i am not able to
> > > > get 29 turns side by side but the last two turn has to go on top.
> > > > Is this any problem ?.
> > > >
> > > > 73 Rune LA7THA
> > > >
> > > >
> > >

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> Senior Staff Specialist, Cricket Coach
> Microsoft Windows Free Zone - Linux used for all Computing Tasks
>

1025. Re: [UHFSDR] Re: 100 watt LPFB

Yahoo group: UHFSDR
Date: 2012-06-21 00:34:53 UTC
From: Sid Boyce
Topic: 1020 Message: 1025

OK Rune,
I hope the Widget will be here in the next few days.
73 ... Sid.

On 20/06/12 23:09, rune wrote:
>
> Hey
>
> Ok understand, keep me posted about you expriment.
>
> 73 Rune LA7THA
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Sid
> Boyce <sboyce@...> wrote:
> >
> > Too many projects on the go Rune.
> >
> > I replaced the BGA612 with a SPF5043Z on one UHFSDR leaving the rest of
> > the circuit as-is but I haven't got around to checking it out yet as my
> > USB sound cards are a pain so I'm waiting any day now to get a
> > SDR-Widget to use with it.
> > I would like to see how it performs at HF before swapping out the
> BGA612
> > on the other one.
> > 73 ... Sid.
> >
> > On 20/06/12 17:22, rune wrote:
> > >
> > > Hey Sid
> > >
> > > Thanks for info, understand you are active here to :-) Just started
> > > and next is the UHFSDR :-)
> > >
> > > 73 Rune LA7THA
> > >
> > > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> <mailto:UHFSDR%40yahoogroups.com>, Sid
> > > Boyce <sboyce@> wrote:
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> > > > That's the way it's done on toroids, no problem.
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> > > > On 20/06/12 12:45, rune wrote:
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1026. Re: UHFSDR Sensitivity

Yahoo group: UHFSDR
Date: 2012-06-23 15:13:50 UTC
From: g.suggate
Topic: 944 Message: 1026

Hi Ed,

Many thanks for the info. I have obtained an SPF5043 [although it says 1G4K on the chip] and fitted it without replacing the 120 ohm resistor, because I did not have one!.
Tests showed a further 3db loss of signal. I then made up a 100nf choke to replace the 120ohm resistor with the same result. I then experimented with different values of choke and a value around 1000nf gave a 6db improvement. ie 3db above the original chip/ resistor combo. I have done DC checks from Ant In to the Chip In all seems OK apart from 3 ohms through the switch, which I am assuming is normal.
My questions now are:-
1. Does your noise floor raise when you plug in an aerial? Mine does not.
2. Have I got the right chip?

Hoping you can help

73 Geoff G3NPI Buckingham UK

--- In UHFSDR@yahoogroups.com, "Ed" <ed.murphy31@...> wrote:
>
> Hi Geoff,
>
> Please see my post "UHFSDR Sensitivity Improvement", message number 714.
>
> Regards Ed GM3SBC
>
> --- In UHFSDR@yahoogroups.com, "g.suggate" <g.suggate@> wrote:
> >
> > I am using my UHFSDR on 70 mhz. By direct comparison with Transverters (28mhz to 70mhz) the sensitivity of SDR appears 10 to 15 db lower.
> > In fact no increase in noise is apparent when connecting an aerial.
> > I have checked the RX preamp which seems OK.
> > So is this normal ? or have I a problem somewhere else?
> > Many thanks in advance
> >
> > Geoff G3NPI Buckingham UK
> >
>

1027. Re: UHFSDR Sensitivity

Yahoo group: UHFSDR
Date: 2012-06-25 14:06:17 UTC
From: Ed
Topic: 944 Message: 1027

Hi Geoff,

The 1G4K marking is correct. The noise floor does increase by several dBs when I connect a antenna on the VHF/UHF bands. On the LF bands the noise increases by about 15 / 20 dB depending on the time of day etc.
I presume that you have observed the part placement. On the SPF5034 you must rotate the IC by 180 degrees compared the the original part fitted. Ie the input and output functions are reversed with reference to the WIDE pin. So the wide pin of the SPF5034 should be in the position diagonally opposite to where the wide pin of the old device resided.

BTW to all, I fitted a bandpass filter for 7 and 10 Mhz and gave the UHFSDR a try. Extremely good , in fact amazing performance. I then compared it with the Softrock Ensemble TXRX. The UHFSDR outperforms. I also noticed that with the Softrock it picked up a huge signal from my mobile phone when it was transmitting, the UHFSDR does not respond , an excellent result. All in all, this little radio is a cracker ! I demonstrated the UHFSDR to a fellow ham recently, he was totally impressed.

Geoff, hope that helps. The resistor / inductor arrangement I used provides a wideband performance with the resistor dictating the Low Frequency gain which is more than adequate consistent with ensuring that there is sufficient DC voltage supplied to the SPF5034. The DC bias voltage on the output is a little less than the recommended value for peak performance. However the part works very well at the bias value chosen. With the original resistor value of 120 ohm the bias voltage would be too low for the part to operate properly.
Best Regards
Ed GM3SBC

--- In UHFSDR@yahoogroups.com, "g.suggate" <g.suggate@...> wrote:
>
> Hi Ed,
>
> Many thanks for the info. I have obtained an SPF5043 [although it says 1G4K on the chip] and fitted it without replacing the 120 ohm resistor, because I did not have one!.
> Tests showed a further 3db loss of signal. I then made up a 100nf choke to replace the 120ohm resistor with the same result. I then experimented with different values of choke and a value around 1000nf gave a 6db improvement. ie 3db above the original chip/ resistor combo. I have done DC checks from Ant In to the Chip In all seems OK apart from 3 ohms through the switch, which I am assuming is normal.
> My questions now are:-
> 1. Does your noise floor raise when you plug in an aerial? Mine does not.
> 2. Have I got the right chip?
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> Hoping you can help
>
> 73 Geoff G3NPI Buckingham UK
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> > --- In UHFSDR@yahoogroups.com, "g.suggate" <g.suggate@> wrote:
> > >
> > > I am using my UHFSDR on 70 mhz. By direct comparison with Transverters (28mhz to 70mhz) the sensitivity of SDR appears 10 to 15 db lower.
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> > > So is this normal ? or have I a problem somewhere else?
> > > Many thanks in advance
> > >
> > > Geoff G3NPI Buckingham UK
> > >
> >
>

1028. Re: [UHFSDR] Re: UHFSDR Sensitivity

Yahoo group: UHFSDR
Date: 2012-06-25 14:46:21 UTC
From: Kees & Sandy
Topic: 944 Message: 1028
Attachments: 2 described; binary payloads are missing from this source WARC

```
[ Attachment content not displayed ]
```

1029. Testing 100 watt LPF

Yahoo group: UHFSDR
Date: 2012-06-25 15:55:10 UTC
From: rune
Topic: 1029 Message: 1029

Hey all
Going to manually test my LPF board, is ther any special way to-do this.
Just want to check that relays are switch in and out etc.
73 Rune LA7THA

1030. Input and Output filters

Yahoo group: UHFSDR
Date: 2012-06-25 19:37:22 UTC
From: Kees & Sandy
Topic: 1030 Message: 1030
Attachments: 2 described; binary payloads are missing from this source WARC

```
[ Attachment content not displayed ]
```

1031. Re: [UHFSDR] Input and Output filters

Yahoo group: UHFSDR
Date: 2012-06-25 20:30:52 UTC
From: Sid Boyce
Topic: 1030 Message: 1031

At the moment I'm using manually switched BPF's for RX and TX.
I am coming around to the idea of using such filters at 100W, much
cheaper than separate BPF's for RX and LPF's for TX.
73 ... Sid.

On 25/06/12 20:37, Kees & Sandy wrote:
> What are you guys using for input and output filtering on your UHFSDR
> ? Since it's low power, a common filter ?, homebrew filters ?, other
> filters ?
> 73 Kees K5BCQ
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1032. Re: UHFSDR Sensitivity

Yahoo group: UHFSDR
Date: 2012-06-25 20:57:56 UTC
From: jeffthom99
Topic: 944 Message: 1032

Hello Ed,

For goodness sake, what is the bias/supply network you use with the new SPF5034 ampfor the data reported??

I (rudely) have left all the blah-blah-blah in this thread simply because it's possible that I have missed some obscure reference to the supply network values and I need someone to point that out.

Please, when referring to previously written info, please, please give the summary component/ frequency values so that we mere mortals can follow the dialog and, hopefully, the on-line fun!

Other than Ed's replacement of the bias resistor with a 100nH inductor I have no idea what was then changed to produce the gain/ bandwidth/ noise values reported here. I would love to follow along but I guess I'm missing the boat somewhere...

Thanks and greetings from Florida

Jeff Thompson

--- In UHFSDR@yahoogroups.com, "Ed" <ed.murphy31@...> wrote:
>
> Hi Geoff,
>
> The 1G4K marking is correct. The noise floor does increase by several dBs when I connect a antenna on the VHF/UHF bands. On the LF bands the noise increases by about 15 / 20 dB depending on the time of day etc.
> I presume that you have observed the part placement. On the SPF5034 you must rotate the IC by 180 degrees compared the the original part fitted. Ie the input and output functions are reversed with reference to the WIDE pin. So the wide pin of the SPF5034 should be in the position diagonally opposite to where the wide pin of the old device resided.
>
> BTW to all, I fitted a bandpass filter for 7 and 10 Mhz and gave the UHFSDR a try. Extremely good , in fact amazing performance. I then compared it with the Softrock Ensemble TXRX. The UHFSDR outperforms. I also noticed that with the Softrock it picked up a huge signal from my mobile phone when it was transmitting, the UHFSDR does not respond , an excellent result. All in all, this little radio is a cracker ! I demonstrated the UHFSDR to a fellow ham recently, he was totally impressed.
>
> Geoff, hope that helps. The resistor / inductor arrangement I used provides a wideband performance with the resistor dictating the Low Frequency gain which is more than adequate consistent with ensuring that there is sufficient DC voltage supplied to the SPF5034. The DC bias voltage on the output is a little less than the recommended value for peak performance. However the part works very well at the bias value chosen. With the original resistor value of 120 ohm the bias voltage would be too low for the part to operate properly.

> Best Regards
> Ed GM3SBC
>
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> > Hi Ed,
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> > 73 Geoff G3NPI Buckingham UK
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> > > Hi Geoff,
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> > > --- In UHFSDR@yahoogroups.com, "g.suggate" <g.suggate@> wrote:
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> > > > I have checked the RX preamp which seems OK.
> > > > So is this normal ? or have I a problem somewhere else?
> > > > Many thanks in advance
> > > >
> > > > Geoff G3NPI Buckingham UK
> > > >
> > >
> >
>

1033. Re: [UHFSDR] Input and Output filters

Yahoo group: UHFSDR
Date: 2012-06-25 21:01:49 UTC
From: Charles Nolin
Topic: 1030 Message: 1033

Hi Kees,

I am working on using one of these as a BPF http://wb6dhw.com/For_Sale.html#BPF,
and to use, http://wb6dhw.com/For_Sale.html#MPLPF.

I haven't gotten to completing this setup yet, both filters are built, I have 3 of each to choose from
that have I've optimized.

I am planning on getting this kit and build this for my last, UHFSDR rig. I haven't ordered this one yet. http://www.5b4agn.net/

Chuck Nolin
WA6LTV/4

From: Kees & Sandy <windy10605@...>
To: UHFSDR@yahoogroups.com
Sent: Monday, June 25, 2012 3:37 PM
Subject: [UHFSDR] Input and Output filters

What are you guys using for input and output filtering on your UHFSDR ? Since it's low power, a common filter ?, homebrew filters ?, other filters ?

73 Kees K5BCQ

1034. Re: [UHFSDR] Input and Output filters

Yahoo group: UHFSDR
Date: 2012-06-25 21:22:19 UTC
From: Kostas Ioannidis
Topic: 1030 Message: 1034

Hi all,
In my setup for the transmit section i use the LPF-100 R3A:
http://site.hfprojectsyahoo.com/low_pass_filters
For the receive section I use this: http://wb6dhw.com/BPF.html
These of course for the HF bands.

73 de sv1ixp

UHFSDR + USB2SDR + BPF/LPF + 100WPA HF/VHF/UHF

1035. RE: [UHFSDR] Input and Output filters

Yahoo group: UHFSDR
Date: 2012-06-25 21:33:11 UTC
From: The Silver Fox
Topic: 1030 Message: 1035

Looks good but perhaps the mobo has more to offer. See mobokits.stormwarning.org

73,

Alan – W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Charles Nolin
Sent: Monday, June 25, 2012 2:02 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Input and Output filters

Hi Kees,

I am working on using one of these as a BPF http://wb6dhw.com/For_Sale.html#BPF,

and to use, http://wb6dhw.com/For_Sale.html#MPLPF.

I haven't gotten to completing this setup yet, both filters are built, I have 3 of each to choose from

that have I've optimized.

I am planning on getting this kit and build this for my last, UHFSDR rig. I haven't

ordered this one yet. http://www.5b4agn.net/

Chuck Nolin

WA6LTV/4

From: Kees & Sandy <windy10605@...>
To: UHFSDR@yahoogroups.com
Sent: Monday, June 25, 2012 3:37 PM
Subject: [UHFSDR] Input and Output filters

What are you guys using for input and output filtering on your UHFSDR ? Since it's low power, a common filter ?, homebrew filters ?, other filters ?

73 Kees K5BCQ

1036. Re: [UHFSDR] Input and Output filters

Yahoo group: UHFSDR
Date: 2012-06-25 21:46:48 UTC
From: Kees & Sandy
Topic: 1030 Message: 1036
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1037. RE: [UHFSDR] Input and Output filters

Yahoo group: UHFSDR
Date: 2012-06-25 22:08:12 UTC
From: Kees & Sandy
Topic: 1030 Message: 1037
Attachments: 2 described; binary payloads are missing from this source WARC

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[ Attachment content not displayed ]
```

1038. Re: [UHFSDR] Input and Output filters

Yahoo group: UHFSDR
Date: 2012-06-25 22:30:31 UTC
From: Kostas Ioannidis
Topic: 1030 Message: 1038

Hi,

I use the AN762 amplifier from Communication-Concepts and I run it at 100W output.

73 de sv1ixp

UHFSDR + USB2SDR + BPF/LPF + 100WPA HF/VHF/UHF

1039. RE: UHFSDR + Mobo + sdr-widget

Yahoo group: UHFSDR
Date: 2012-06-26 01:46:39 UTC
From: Sid Boyce
Topic: 1039 Message: 1039
Attachments: 1 described; binary payloads are missing from this source WARC

Kees,
I've been digging back in the mail.
I never got the write-up from Larry.
73 ... Sid.

-------- Original Message --------
Subject: [[UHF-SDRkits]] UHFSDR + Mobo + sdr-widget
Date: Wed, 25 May 2011 22:56:57 +0800
From: Alex Lee <alexlee188@...>
Reply-To: uhf-sdrkits@...
To: uhf-sdrkits@..., W9AMR@...

Hi all,

Larry W9AMR recently built this and he has a fully functional 160-10M HF transceiver with 5W output. There is a single USB connection to the PC for both the IQ audio and rig control (Si570, band switching, T/R switching, Fan control etc.) He is planning to add a VHF PA portion to extend the freq range.

Larry is prepared to share the details of his project with others in the UHFSDR forum but he was not able to post. Maybe the list moderator can contact him if there is interest?

73 Alex

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1040. Re: [UHFSDR] RE: UHFSDR + Mobo + sdr-widget

Yahoo group: UHFSDR
Date: 2012-06-26 02:14:36 UTC
From: w9amr@aol.com
Topic: 1039 Message: 1040

In a message dated 6/25/2012 9:47:38 P.M. Eastern Daylight Time, sboyce@... writes:

Kees,
I've been digging back in the mail.
I never got the write-up from Larry.
73 ... Sid.

-------- Original Message -------- Subject: [[UHF-SDRkits]] UHFSDR + Mobo + sdr-widget Date: Wed, 25 May 2011 22:56:57 +0800 From: Alex Lee _<alexlee188@gmail.com>_ (mailto:alexlee188@...) Reply-To: _uhf-sdrkits@googlegroups.com_ (mailto:uhf-sdrkits@...) To: _uhf-sdrkits@googlegroups.com_ (mailto:uhf-sdrkits@...) , _W9AMR@..._ (mailto:W9AMR@...)

Hi all,

Larry W9AMR recently built this and he has a fully functional 160-10M HF transceiver with 5W output. There is a single USB connection to the PC for both the IQ audio and rig control (Si570, band switching, T/R switching, Fan control etc.) He is planning to add a VHF PA portion to extend the freq range.

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73 Alex

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Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot

Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support

Senior Staff Specialist, Cricket Coach

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1041. Re: [UHFSDR] RE: UHFSDR + Mobo + sdr-widget

Yahoo group: UHFSDR
Date: 2012-06-26 02:15:53 UTC
From: w9amr@aol.com
Topic: 1039 Message: 1041

Hi All, here is the info I wrote a long time ago.

First off, ****DO THIS AT YOUR OWN RISK!**** Now that I scared you read on...

How to setup a MOBO to be driven with any Softrock or a "UHFSDR".

There are probably better ways to do this. But this works for me! The Mobo has a interesting input switching circuitry. Very clever and ideal for the 6.3(NG) We need to make a few changes. The mods are reversible no foil cutting necessary. If you use the UHFSDR I don't think the stock mobo firmware will work. I am using the Widget for a controller. Loftur or Art could answer that question. I am sure it could be modified if there were enough interested. There are other controllers that might work?

I run the 12v+ to the input on the 5v regulator and ground to the ground pin. Add a 470mfd cap to the input.

Remove C12 C17

Lift pin 9 on U8 and jumper the lifted IC pin 9 to pin 7 on same IC

P19 Pin1, S12V goes in here.

I2C, P13 goes to UHFSDR H2.

Radio antenna goes to Pin 9 U8 put a .1 cap in series with it. 25-50v rating is plenty.

TX antenna goes to P15 Pin 1 or 5

RX Antenna goes to P17

Use a double pole double throw relay use 1 half for antenna switching and the other to do something else if needed sequential keying for bias an such?. You could make up a ciruit using BS170 just like the 6.3 uses but I think the relay is easier and less prone to failure in the future. And the relay gives more flexabilty.

I need to test it a bit more and make sure it is 100%! So far no issues. I am using the Widget V.005 unified version.

I have a lot more to do to the project. When I am done I hope to go 160m to 2m. I will have more and better info coming shortly. It is not as hard as it looks to interface the MOBO to other projects. Take time to make sure your wiring is correct. Use the schematic to understand what I have don't Have fun with it!!!

Larry W9AMR

In a message dated 6/25/2012 9:47:38 P.M. Eastern Daylight Time, sboyce@... writes:

Kees,
I've been digging back in the mail.
I never got the write-up from Larry.
73 ... Sid.

-------- Original Message -------- Subject: [[UHF-SDRkits]] UHFSDR + Mobo + sdr-widget Date: Wed, 25 May 2011 22:56:57 +0800 From: Alex Lee _<alexlee188@gmail.com>_ (mailto:alexlee188@...) Reply-To: _uhf-sdrkits@googlegroups.com_ (mailto:uhf-sdrkits@...) To: _uhf-sdrkits@googlegroups.com_ (mailto:uhf-sdrkits@...) , _W9AMR@..._ (mailto:W9AMR@...)

Hi all,

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Larry is prepared to share the details of his project with others in the UHFSDR forum but he was not able to post. Maybe the list moderator can contact him if there is interest?

73 Alex

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Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot

Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support

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1042. Re: [UHFSDR] Testing 100 watt LPF

Yahoo group: UHFSDR
Date: 2012-06-26 05:45:50 UTC
From: Dave
Topic: 1029 Message: 1042

Rune:
After power up, all outputs of the 8574 are high and will cause all
relays to be energized. For manual operation, you need to ground all of
TP1 to TP7 except the output going to the filter you want switched in.
If you are planning on operating the board manually or with something
like the mobo that uses bcd lines for control, I have a little board
that will replace the 9574.

Dave - WB6DHW
<http://wb6dhw.com>

On 6/25/2012 8:55 AM, rune wrote:
>
> Hey all
> Going to manually test my LPF board, is ther any special way to-do this.
> Just want to check that relays are switch in and out etc.
> 73 Rune LA7THA
>
>
>

1043. Re: Testing 100 watt LPF

Yahoo group: UHFSDR
Date: 2012-06-26 10:26:16 UTC
From: rune
Topic: 1029 Message: 1043

Hey

Understand that grounding TP1>TP7 will do the job. I found the diagram of the board and will P1, P3,P4 serve as "manual" BCD input A0,A1,A2 I have to repeat myself about BCD code have not done this for the last 22 Years :-)But yes I remember, 3 variable in BCD you could count up to 7. Need to find my old electronic book from school and repeat some of my stuff.

73 Rune LA7THA

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> Rune:
> After power up, all outputs of the 8574 are high and will cause all
> relays to be energized. For manual operation, you need to ground all of
> TP1 to TP7 except the output going to the filter you want switched in.
> If you are planning on operating the board manually or with something
> like the mobo that uses bcd lines for control, I have a little board
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> >
>

1044. Re: [UHFSDR] RE: UHFSDR + Mobo + sdr-widget

Yahoo group: UHFSDR
Date: 2012-06-26 12:35:46 UTC
From: Sid Boyce
Topic: 1039 Message: 1044

The latest Widget firmware that Alex issued allows x4 to be sent but interpreted as x2 for the UHFSDR.
Under Linux this script stores the correct per-band multiplier in EEPROM. I don't know how it's done in Windows.

```
------------------------------- CUT
--------------------------------------------
#!/bin/sh
usbsoftrock set si570_multiplier 0 0.5
usbsoftrock set si570_multiplier 1 0.5
usbsoftrock set si570_multiplier 2 0.5
usbsoftrock set si570_multiplier 3 0.5
usbsoftrock set si570_multiplier 4 0.5
usbsoftrock set si570_multiplier 5 0.5
usbsoftrock set si570_multiplier 6 0.5
usbsoftrock set si570_multiplier 7 0.5
usbsoftrock set si570_multiplier 8 0.5
------------------------------ CUT
---------------------------------------------
```

73 ... Sid.

On 26/06/12 03:15, w9amr@... wrote:
>
> Hi All, here is the info I wrote a long time ago.
> First off, ****DO THIS AT YOUR OWN RISK!**** Now that I scared you
> read on...
> How to setup a MOBO to be driven with any Softrock or a "UHFSDR".
>
> There are probably better ways to do this. But this works for me! The
> Mobo has a interesting input switching circuitry. Very clever and
> ideal for the 6.3(NG) We need to make a few changes. The mods are
> reversible no foil cutting necessary. If you use the UHFSDR I don't
> think the stock mobo firmware will work. I am using the Widget for a
> controller. Loftur or Art could answer that question. I am sure it
> could be modified if there were enough interested. There are other
> controllers that might work?
>
>
> I run the 12v+ to the input on the 5v regulator and ground to the
> ground pin. Add a 470mfd cap to the input.
> Remove C12 C17
>
> Lift pin 9 on U8 and jumper the lifted IC pin 9 to pin 7 on same IC
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> P19 Pin1, S12V goes in here.
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> I2C, P13 goes to UHFSDR H2.
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> Radio antenna goes to Pin 9 U8 put a .1 cap in series with it. 25-50v
> rating is plenty.
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> TX antenna goes to P15 Pin 1 or 5
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> RX Antenna goes to P17
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> Use a double pole double throw relay use 1 half for antenna switching
> and the other to do something else if needed sequential keying for
> bias an such?. You could make up a ciruit using BS170 just like the
> 6.3 uses but I think the relay is easier and less prone to failure in
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>
> Larry W9AMR
> In a message dated 6/25/2012 9:47:38 P.M. Eastern Daylight Time,
> sboyce@... writes:
>
> Kees,
> I've been digging back in the mail.
> I never got the write-up from Larry.
>
> 73 ... Sid.
>
>
> -------- Original Message --------
> Subject: [[UHF-SDRkits]] UHFSDR + Mobo + sdr-widget
> Date: Wed, 25 May 2011 22:56:57 +0800
> From: Alex Lee <alexlee188@...>
> Reply-To: uhf-sdrkits@...
> To: uhf-sdrkits@..., W9AMR@...
>
>
>
> Hi all,
>
> Larry W9AMR recently built this and he has a fully functional
> 160-10M HF transceiver with 5W output. There is a single USB
> connection to the PC for both the IQ audio and rig control (Si570,
> band switching, T/R switching, Fan control etc.) He is planning

> to add a VHF PA portion to extend the freq range.
>
> Larry is prepared to share the details of his project with others
> in the UHFSDR forum but he was not able to post. Maybe the list
> moderator can contact him if there is interest?
>
> 73 Alex
>
>
>
>
> --
> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
> Senior Staff Specialist, Cricket Coach
> Microsoft Windows Free Zone - Linux used for all Computing Tasks
>
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1045. Re: UHFSDR Sensitivity

Yahoo group: UHFSDR
Date: 2012-06-26 13:51:30 UTC
From: g.suggate
Topic: 944 Message: 1045

Hi Ed

Thanks for the reply.

It shows I still have a problem.

I note you refer to a "resistor/inductor arrangement" where I mistakingly thought the 120 ohm resistor was replaced by the inductor.

So the next question is; what value resistor and is it in series with the inductor? and will I have damaged the chip by incorrectly biasing it?

Yes I did make sure the new chip was put in reversed....

Geoff G3NPI Buckingham UK

--- In UHFSDR@yahoogroups.com, "Ed" <ed.murphy31@...> wrote:
>
> Hi Geoff,
>

> Geoff, hope that helps. The resistor / inductor arrangement I used provides a wideband performance with the resistor dictating the Low Frequency gain which is more than adequate consistent with ensuring that there is sufficient DC voltage supplied to the SPF5034. The DC bias voltage on the output is a little less than the recommended value for peak performance. However the part works very well at the bias value chosen. With the original resistor value of 120 ohm the bias voltage would be too low for the part to operate properly.
> Best Regards
> Ed GM3SBC
>
>

1046. Re: UHFSDR Sensitivity

Yahoo group: UHFSDR
Date: 2012-06-26 20:47:08 UTC
From: Ed
Topic: 944 Message: 1046

Hi Geoff, please read ALL of MY posts on message 714. BTW at some point the title of this thread was changed, this has caused fustration for a few readers. , for ALL those interested in the subject of sensitivity improvement please refer to my comments on the original post , message 714.
Thanks. Ed GM3SBC Ooo

I--- In UHFSDR@yahoogroups.com, "g.suggate" <g.suggate@...> wrote:
>
>
> Hi Ed
>
> Thanks for the reply.
>
> It shows I still have a problem.
>
> I note you refer to a "resistor/inductor arrangement" where I mistakingly thought the 120 ohm resistor was replaced by the inductor.
>
> So the next question is; what value resistor and is it in series with the inductor? and will I have damaged the chip by incorrectly biasing it?
>
> Yes I did make sure the new chip was put in reversed....
>
> Geoff G3NPI Buckingham UK
>
>
>
> --- In UHFSDR@yahoogroups.com, "Ed" <ed.murphy31@> wrote:
> >
> > Hi Geoff,
> >
>
> > Geoff, hope that helps. The resistor / inductor arrangement I used provides a wideband performance with the resistor dictating the Low Frequency gain which is more than adequate consistent with ensuring that there is sufficient DC voltage supplied to the SPF5034. The DC bias voltage on the output is a little less than the recommended value for peak performance. However the part works very well at the bias value chosen. With the original resistor value of 120 ohm the bias voltage would be too low for the part to operate properly.
> > Best Regards
> > Ed GM3SBC
> >
> >
>

1047. Re: Full Kit Status

Yahoo group: UHFSDR
Date: 2012-06-27 12:31:34 UTC
From: goofy_36
Topic: 238 Message: 1047

I am new to this group. Are they any full kits left or will more be coming? Currently I am building a Softrock RXTX Ensemble. This looks like a nice follow on project.

Thanks
Dave KB9GPM

--- In UHFSDR@yahoogroups.com, "The Silver Fox" <alan.r.hill@...> wrote:
>
> I will not be able to fill any further orders until the next batch of
> Si570's arrive in 6-7 weeks. If you are interested in ordering, I will
> continue to accept orders which I will fill and ship in the order received.
> Thanks to all who have supported this project in the past. In addition to
> the full SDR kits I am selling the UHFSDR 570s for $75. To reward those who
> order the si570s before they arrive I will sell them for $70 until the
> shipment is here.
>
> 73's
>
> Alan - W6ARH
>

1048. RE: [UHFSDR] Re: Full Kit Status

Yahoo group: UHFSDR
Date: 2012-06-27 14:35:52 UTC
From: The Silver Fox
Topic: 238 Message: 1048

Yes. I have components to create the kits for anyone who would like to order one. There is a two to three week backlog of kit orders at the moment. I lost about a week of time doing Field Day. The kits are $200 USD and $204 for DX orders. Customs requires a phone number for DX customs forms. Payment is via paypal to my email address.

73,

Alan - W6ARH

<http://mobokits.stormwarning.org/> http://mobokits.stormwarning.org/

<http://wb6dhw.com/For_Sale.html> http://wb6dhw.com/For_Sale.html

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of goofy_36
Sent: Wednesday, June 27, 2012 5:32 AM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Re: Full Kit Status

I am new to this group. Are they any full kits left or will more be coming? Currently I am building a Softrock RXTX Ensemble. This looks like a nice follow on project.

Thanks
Dave KB9GPM

--- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com> , "The Silver Fox" <alan.r.hill@...> wrote:
>
> I will not be able to fill any further orders until the next batch of
> Si570's arrive in 6-7 weeks. If you are interested in ordering, I will
> continue to accept orders which I will fill and ship in the order received.
> Thanks to all who have supported this project in the past. In addition to
> the full SDR kits I am selling the UHFSDR 570s for $75. To reward those who
> order the si570s before they arrive I will sell them for $70 until the
> shipment is here.
>
> 73's
>
> Alan - W6ARH
>

1049. RE: [UHFSDR] Re: Full Kit Status

Yahoo group: UHFSDR
Date: 2012-06-27 17:16:12 UTC
From: Rob Frohne
Topic: 238 Message: 1049

The Silver Fox <alan.r.hill@gmail.com> wrote:

>Yes. I have components to create the kits for anyone who would like to
>order one. There is a two to three week backlog of kit orders at the
>moment. I lost about a week of time doing Field Day. The kits are $200
>USD and $204 for DX orders. Customs requires a phone number for DX customs
>forms. Payment is via paypal to my email address.
>
>73,
>
>Alan - W6ARH
>
>
>
> <http://mobokits.stormwarning.org/> http://mobokits.stormwarning.org/
>
> <http://wb6dhw.com/For_Sale.html> http://wb6dhw.com/For_Sale.html
>
>
>
>
>
>
>
>From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
>goofy_36
>Sent: Wednesday, June 27, 2012 5:32 AM
>To: UHFSDR@yahoogroups.com
>Subject: [UHFSDR] Re: Full Kit Status
>
>
>
>
>
>I am new to this group. Are they any full kits left or will more be coming?
>Currently I am building a Softrock RXTX Ensemble. This looks like a nice
>follow on project.
>
>Thanks
>Dave KB9GPM
>
>--- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com> , "The
>Silver Fox" <alan.r.hill@...> wrote:
>>
>> I will not be able to fill any further orders until the next batch of

>> Si570's arrive in 6-7 weeks. If you are interested in ordering, I will
>> continue to accept orders which I will fill and ship in the order
>received.
>> Thanks to all who have supported this project in the past. In addition to
>> the full SDR kits I am selling the UHFSDR 570s for $75. To reward those
>who
>> order the si570s before they arrive I will sell them for $70 until the
>> shipment is here.
>>
>> 73's
>>
>> Alan - W6ARH
>>
>
>
>

1050. RE: [UHFSDR] Re: Full Kit Status

Yahoo group: UHFSDR
Date: 2012-06-27 18:38:07 UTC
From: MIKE DURKIN
Topic: 238 Message: 1050

Blank email

-----Original Message-----

From: Rob Frohne
Sent: 27 Jun 2012 17:17:00 GMT
To: UHFSDR@yahoogroups.com
Subject: RE: [UHFSDR] Re: Full Kit Status

The Silver Fox <alan.r.hill@...> wrote:

>Yes. I have components to create the kits for anyone who would like to
>order one. There is a two to three week backlog of kit orders at the
>moment. I lost about a week of time doing Field Day. The kits are $200
>USD and $204 for DX orders. Customs requires a phone number for DX customs
>forms. Payment is via paypal to my email address.
>
>73,
>
>Alan - W6ARH
>
>
>
> <http://mobokits.stormwarning.org/> http://mobokits.stormwarning.org/
>
> <http://wb6dhw.com/For_Sale.html> http://wb6dhw.com/For_Sale.html
>
>
>
>
>
>
>
>From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
>goofy_36
>Sent: Wednesday, June 27, 2012 5:32 AM
>To: UHFSDR@yahoogroups.com
>Subject: [UHFSDR] Re: Full Kit Status
>
>
>
>
>
>I am new to this group. Are they any full kits left or will more be coming?
>Currently I am building a Softrock RXTX Ensemble. This looks like a nice
>follow on project.

>
>Thanks
>Dave KB9GPM
>
>--- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com> , "The
>Silver Fox" <alan.r.hill@...> wrote:
>>
>> I will not be able to fill any further orders until the next batch of
>> Si570's arrive in 6-7 weeks. If you are interested in ordering, I will
>> continue to accept orders which I will fill and ship in the order
>received.
>> Thanks to all who have supported this project in the past. In addition to
>> the full SDR kits I am selling the UHFSDR 570s for $75. To reward those
>who
>> order the si570s before they arrive I will sell them for $70 until the
>> shipment is here.
>>
>> 73's
>>
>> Alan - W6ARH
>>
>
>
>

1051. 2m module success!

Yahoo group: UHFSDR
Date: 2012-06-27 18:39:50 UTC
From: Kostas Ioannidis
Topic: 1051 Message: 1051

Hi all,
Finally the 2m portion of my SDR is ready and I also had my first 2m
Es QSO with DK5YA! You can download a small sample of the QSO from
here (It is a quick recording using PowerSDR-IQ):
https://rapidshare.com/files/1958085272/DK5YA-SV1IXP_2m_Es.wav
When I have time I will post the details of the 2m setup.

73 de sv1ixp

UHFSDR + USB2SDR + BPF/LPF + 100WPA HF/VHF/UHF

1052. Re: [UHFSDR] 2m module success!

Yahoo group: UHFSDR
Date: 2012-06-27 19:24:28 UTC
From: Oliver Goldenstein
Topic: 1051 Message: 1052

congrats, looking forward to see more Details.

73 Oliver DL6KBG
Am 27.06.2012 20:39 schrieb "Kostas Ioannidis" <kostas.ioannidis@...>:

> Hi all,
> Finally the 2m portion of my SDR is ready and I also had my first 2m
> Es QSO with DK5YA! You can download a small sample of the QSO from
> here (It is a quick recording using PowerSDR-IQ):
> https://rapidshare.com/files/1958085272/DK5YA-SV1IXP_2m_Es.wav
> When I have time I will post the details of the 2m setup.
>
> 73 de sv1ixp
>
> ----------
> UHFSDR + USB2SDR + BPF/LPF + 100WPA HF/VHF/UHF
>
>
> ----------
>
> Yahoo! Groups Links
>
>
>
>

1053. Re: 2m module success!

Yahoo group: UHFSDR
Date: 2012-06-28 08:23:01 UTC
From: Dimitris Sapountzakis
Topic: 1051 Message: 1053

Hi Kosta,

A question: How did you configure the USB2SDR to activate the extra BPF filter for the 2m ? Can you share some details?

regards
Dimitris
SV1OBT

1054. Re: [UHFSDR] Re: 2m module success!

Yahoo group: UHFSDR
Date: 2012-06-28 11:43:39 UTC
From: Kostas Ioannidis
Topic: 1051 Message: 1054

Hi,
hurray!

http://www.mmmonvhf.de/es.php?year=2012&month=06&day=27

hihi

73 de sv1ixp

UHFSDR + USB2SDR + BPF/LPF + 100WPA HF/VHF/UHF

1055. an appeal

Yahoo group: UHFSDR
Date: 2012-06-30 18:54:35 UTC
From: firedjl
Topic: 1055 Message: 1055

Ok, you all are my last hope. I can't get past the first construction step. getting 2.7v at the output of the 3.3 regulator. I have done the following:
used 3 different u12 chips,
checked all leads for continuity and shorts,
have 5 v at both chip input pins (at the chip housing entry),
checked the voltages right at the chip leads including the ground and bypasss,
checked for oscillation on the chip output with a good scope,
used proper flux and silver bearing solder (no acid flux,)
cleaned up with flux remover,
all joints nice and shiny and beaded properly, no cold joints
I'm going nuts! Stumped! and I know it's probably a flat forehead error...
any suggestions?
Thanks.
Don
(my first kit build an Eico vtvm, 1952? 53? and built many since then, including smt's)

1056. Re: [UHFSDR] an appeal

Yahoo group: UHFSDR
Date: 2012-06-30 19:11:31 UTC
From: Dave
Topic: 1055 Message: 1056

The low output could be something overloading the output. The regulator responds by lowering the output. Try lifting the output pin and checking. Also, ensure the chip grounds are good(with power off, use a continuity checker between the pins and ground).

Dave - WB6DHW
<http://wb6dhw.com>

On 6/30/2012 11:54 AM, firedjl wrote:
>
> Ok, you all are my last hope. I can't get past the first construction
> step. getting 2.7v at the output of the 3.3 regulator. I have done the
> following:
> used 3 different u12 chips,
> checked all leads for continuity and shorts,
> have 5 v at both chip input pins (at the chip housing entry),
> checked the voltages right at the chip leads including the ground and
> bypasss,
> checked for oscillation on the chip output with a good scope,
> used proper flux and silver bearing solder (no acid flux,)
> cleaned up with flux remover,
> all joints nice and shiny and beaded properly, no cold joints
> I'm going nuts! Stumped! and I know it's probably a flat forehead error...
> any suggestions?
> Thanks.
> Don
> (my first kit build an Eico vtvm, 1952? 53? and built many since then,
> including smt's)
>
>

1057. Re: [UHFSDR] an appeal

Yahoo group: UHFSDR
Date: 2012-06-30 19:40:02 UTC
From: Kees & Sandy
Topic: 1055 Message: 1057
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1058. Sensitivity

Yahoo group: UHFSDR
Date: 2012-06-30 19:49:33 UTC
From: Kees & Sandy
Topic: 1058 Message: 1058
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1059. Re: an appeal

Yahoo group: UHFSDR
Date: 2012-06-30 20:56:16 UTC
From: firedjl
Topic: 1055 Message: 1059

Ok, breadboarded one of the batch of regulators on a schmartboard, with some ridiculous caps to get the same values, .01, 10 and 10 uf and get 3.3 volts. used same solder and flux pen. Still stammagasted and going more nuts...
Don

--- In UHFSDR@yahoogroups.com, "Kees & Sandy" <windy10605@...> wrote:
>
> Let me ask a silly question..... are you sure it's a 3.3V regulator and that the pinouts are as you wanted them. They do vary between part numbers If you are buying your own parts (possible since you said you tried 3 regulators). 73 Kees K5BCQ
>
> ---------- Original Message ----------
> From: Dave <dave@...>
> To: UHFSDR@yahoogroups.com
> Subject: Re: [UHFSDR] an appeal
> Date: Sat, 30 Jun 2012 12:11:31 -0700
>
>
> <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">
> The low output could be something overloading the output. The regulator responds by lowering the output. Try lifting the output pin and checking. Also, ensure the chip grounds are good(with power off, use a continuity checker between the pins and ground).
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 6/30/2012 11:54 AM, firedjl wrote: Ok, you all are my last hope. I can't get past the first construction step. getting 2.7v at the output of the 3.3 regulator. I have done the following:
> used 3 different u12 chips,
> checked all leads for continuity and shorts,
> have 5 v at both chip input pins (at the chip housing entry),
> checked the voltages right at the chip leads including the ground and bypasss,
> checked for oscillation on the chip output with a good scope,
> used proper flux and silver bearing solder (no acid flux,)
> cleaned up with flux remover,
> all joints nice and shiny and beaded properly, no cold joints
> I'm going nuts! Stumped! and I know it's probably a flat forehead error...
> any suggestions?
> Thanks.
> Don
> (my first kit build an Eico vtvm, 1952? 53? and built many since then, including smt's)
>

1060. Re: an appeal

Yahoo group: UHFSDR
Date: 2012-06-30 20:09:57 UTC
From: firedjl
Topic: 1055 Message: 1060

Thanks Dave and Kees. I'll check the overload, but the circuit as a whole is drawing only 3 ma from a 12v supply. Would it do that under a foldback? The parts are straight from digikey and are from two different orders. part number is exactly right according to the packaging.

--- In UHFSDR@yahoogroups.com, "Kees & Sandy" <windy10605@...> wrote:
>
> Let me ask a silly question..... are you sure it's a 3.3V regulator and that the pinouts are as you wanted them. They do vary between part numbers If you are buying your own parts (possible since you said you tried 3 regulators). 73 Kees K5BCQ
>
> ---------- Original Message ----------
> From: Dave <dave@...>
> To: UHFSDR@yahoogroups.com
> Subject: Re: [UHFSDR] an appeal
> Date: Sat, 30 Jun 2012 12:11:31 -0700
>
>
> <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">
> The low output could be something overloading the output. The regulator responds by lowering the output. Try lifting the output pin and checking. Also, ensure the chip grounds are good(with power off, use a continuity checker between the pins and ground).
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 6/30/2012 11:54 AM, firedjl wrote: Ok, you all are my last hope. I can't get past the first construction step. getting 2.7v at the output of the 3.3 regulator. I have done the following:
> used 3 different u12 chips,
> checked all leads for continuity and shorts,
> have 5 v at both chip input pins (at the chip housing entry),
> checked the voltages right at the chip leads including the ground and bypasss,
> checked for oscillation on the chip output with a good scope,
> used proper flux and silver bearing solder (no acid flux,)
> cleaned up with flux remover,
> all joints nice and shiny and beaded properly, no cold joints
> I'm going nuts! Stumped! and I know it's probably a flat forehead error...
> any suggestions?
> Thanks.
> Don
> (my first kit build an Eico vtvm, 1952? 53? and built many since then, including smt's)
>

1061. Re: [UHFSDR] Re: an appeal

Yahoo group: UHFSDR
Date: 2012-06-30 22:19:28 UTC
From: Dave
Topic: 1055 Message: 1061

Foldback would be above 250mA.

Dave - WB6DHW
<http://wb6dhw.com>

On 6/30/2012 1:09 PM, firedjl wrote:
>
> Thanks Dave and Kees. I'll check the overload, but the circuit as a
> whole is drawing only 3 ma from a 12v supply. Would it do that under a
> foldback? The parts are straight from digikey and are from two
> different orders. part number is exactly right according to the packaging.
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, "Kees
> & Sandy" <windy10605@...> wrote:
> >
> > Let me ask a silly question..... are you sure it's a 3.3V regulator
> and that the pinouts are as you wanted them. They do vary between part
> numbers If you are buying your own parts (possible since you said you
> tried 3 regulators). 73 Kees K5BCQ
> >
> > ---------- Original Message ----------
> > From: Dave <dave@...>
> > To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> > Subject: Re: [UHFSDR] an appeal
> > Date: Sat, 30 Jun 2012 12:11:31 -0700
> >
> >
> > <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN"
> "http://www.w3.org/TR/html4/strict.dtd">
> > The low output could be something overloading the output. The
> regulator responds by lowering the output. Try lifting the output pin
> and checking. Also, ensure the chip grounds are good(with power off,
> use a continuity checker between the pins and ground).
> >
> > Dave - WB6DHW
> > <http://wb6dhw.com>
> >
> > On 6/30/2012 11:54 AM, firedjl wrote: Ok, you all are my last hope.
> I can't get past the first construction step. getting 2.7v at the
> output of the 3.3 regulator. I have done the following:
> > used 3 different u12 chips,
> > checked all leads for continuity and shorts,
> > have 5 v at both chip input pins (at the chip housing entry),
> > checked the voltages right at the chip leads including the ground
> and bypasss,

> > checked for oscillation on the chip output with a good scope,
> > used proper flux and silver bearing solder (no acid flux,)
> > cleaned up with flux remover,
> > all joints nice and shiny and beaded properly, no cold joints
> > I'm going nuts! Stumped! and I know it's probably a flat forehead
> error...
> > any suggestions?
> > Thanks.
> > Don
> > (my first kit build an Eico vtvm, 1952? 53? and built many since
> then, including smt's)
> >
>
>

1062. Re: an appeal

Yahoo group: UHFSDR
Date: 2012-06-30 22:25:39 UTC
From: firedjl
Topic: 1055 Message: 1062

the saga continues. I put in a whacking great to-220 3.3 v regulator and all traces and caps are ok, I get 3.3 v. A really reaching question. With the regulator out of the circuit, and c41 in place, I get about 400k resistance between the regulator trace for the bypass c41 and ground. Should this be? seems to me should indicate open. all traces are clean etc.
If moderator or others are tired of this tread just say so and I'll quit.
thanks
Don

1063. Re: [UHFSDR] Re: an appeal

Yahoo group: UHFSDR
Date: 2012-06-30 23:01:23 UTC
From: Kees & Sandy
Topic: 1055 Message: 1063
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1064. Re: [UHFSDR] Re: an appeal

Yahoo group: UHFSDR
Date: 2012-06-30 22:55:22 UTC
From: Kees & Sandy
Topic: 1055 Message: 1064
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1065. Re: an appeal

Yahoo group: UHFSDR
Date: 2012-06-30 23:23:57 UTC
From: firedjl
Topic: 1055 Message: 1065

Oh, I haven't populated anything except step 1 in the build document. I probably won't be using an SI570 to start, but an external source. So there's nothing there but r1,ui and associated caps, which is working just fine, and u12 and associated caps, which I'm wrestling with, and FB1.
Don

--- In UHFSDR@yahoogroups.com, "Kees & Sandy" <windy10605@...> wrote:
>
> I think that's good, you eliminated a possibility, now to home in on the problem. Are U13 and the Si570 oriented correctly (pin #1) ? No solder bridges on the 3 pin side of U12 ? Can you send me a picture(s) offline ? 73 Kees K5BCQ

1066. Re: [UHFSDR] Re: an appeal

Yahoo group: UHFSDR
Date: 2012-07-01 01:15:01 UTC
From: Kees & Sandy
Topic: 1055 Message: 1066
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1067. Re: [UHFSDR] Sensitivity

Yahoo group: UHFSDR
Date: 2012-07-01 02:04:32 UTC
From: Sid Boyce
Topic: 1058 Message: 1067

I still haven't got around to it yet as the Widget has not yet arrived
as I expected.
The other UHFSDR/Widget is in a case all wired up and a bit awkward for
testing the second UHFSDR.
73 ... Sid.

On 30/06/12 20:49, Kees & Sandy wrote:
> Any more testing news on the use of a SPF5043Z MMIC from 2-30MHz ?
> measured NF ? Gain ? Bias current ?
> I want to try some FET switchable bias MMICs with FET
> bypass.....should work.
> 73 Kees K5BCQ
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1068. Re: an appeal

Yahoo group: UHFSDR
Date: 2012-07-01 04:47:44 UTC
From: firedjl
Topic: 1055 Message: 1068

measured 400k resistance across c41 with the regulator out of circuit. the regulator specs say that this could be too low. will remove c41 and check to see why this resistance is there.

Don
--- In UHFSDR@yahoogroups.com, "Kees & Sandy" <windy10605@...> wrote:
>
> OK, so C40, C41, and C42 are installed ? I'd put a little load on the regulator for testing, 1K is fine. You can just connect it from pin 1 to pin 3 of the H2 connector. I'd also check those 3 pins on one side of the 3.3V regulator, pins 1 and 3 as supposed to be tied together with a trace on the bottom of the board, but pin 2 is not supposed to be tied to either pin 1 or pin 3. 73 Kees K5BCQ ---------- Original Message ----------
> From: "firedjl" <djl@...>
> To: UHFSDR@yahoogroups.com
> Subject: [UHFSDR] Re: an appeal
> Date: Sat, 30 Jun 2012 23:23:57 -0000
>
>
> <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">
> Oh, I haven't populated anything except step 1 in the build document. I probably won't be using an SI570 to start, but an external source. So there's nothing there but r1,ui and associated caps, which is working just fine, and u12 and associated caps, which I'm wrestling with, and FB1.
> Don
>
> --- In UHFSDR@yahoogroups.com, "Kees & Sandy" <windy10605@> wrote:
> >
> > I think that's good, you eliminated a possibility, now to home in on the problem. Are U13 and the Si570 oriented correctly (pin #1) ? No solder bridges on the 3 pin side of U12 ? Can you send me a picture(s) offline ? 73 Kees K5BCQ
>

1069. Re: [UHFSDR] UHFSDR in Eddystone Die Cast Box

Yahoo group: UHFSDR
Date: 2012-07-01 17:28:56 UTC
From: Oliver Goldenstein
Topic: 699 Message: 1069

Hi Ed et al !

Ed i like your built very much. Just saw, that the Eddystone Box with the same dimensions is available here in germany at Conrad:

http://www.conrad.de/ce/de/product/522395/GEHAeUSE-ALUMINIUM-SPRITZGUss-29830PSLA

Ed do you have a picture from inside the diecast box. Would be very nice to see some :-)

73 and tnx fer sharing the pictures and information.

Oliver, DL6KBG

On 21 February 2012 13:18, Ed <ed.murphy31@...> wrote:

> Hi All,
> Thought you might like to see my UHFSDR now in its box. I managed to find
> an Eddystone Die Cast Box which is absolutely perfect in size. The external
> dimensions of the box measure 120 X 95 X 34 mm. The PCB fits nicely on the
> lid which in the photos is the Base of the box. I have included an USB
> interface which is made on a small PCB mounted above the main board. First
> of all I removed the Regulator IC and fitted it on the Base underneath the
> main PCB and added 0.1 caps between the In/Out pins and the centre earth
> pin. The large power resistor R1 was also removed from the main PCB and
> fitted on the interface board. The interface circuit is based on the
> Softrock, utilising the Tiny chip with firmware V15.12 and the opto IC to
> provide isolation for the PTT function. The output of this IC drives a PNP
> transistor whose emitter is connected to the +5 VF supply. The collector
> drives the TX LED and the Main board T/R PTT. I also included a diode
> connected in series with R1 to protect against the +12 Volt being connected
> in reverse. There are three additional connectors, The USB, PADDLES and the
> POWER, all fitted on the small PCB. The PADDLES connector has an insolated
> case which is long enough to protrude out through the back of the box such
> that the when the plug is fitted its metal work (earth) does not short
> circuit to the box. (This connector is within the isolated circuit section
> a should not be able to connect to the Main PCB earth.)
> Dave, it would be just GREAT if you could manage to move the PSU
> components down the main PCB to make room for all three connectors. The
> POWER connector used by the Softrock kits is ideal for the job. The PADDLES
> connector was the type distributed by Alan, BTW the other three stereo
> connectors were the type you specified in the Farnell BOM. The Eddystone
> Box was obtained from MAPLINs, THEIR Part Number is: N90BQ See GM3SBC File
> Section photos . 73s Ed GM3SBC
>
>
>

> ---
>
> Yahoo! Groups Links
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>
>

1070. Re: an appeal

Yahoo group: UHFSDR
Date: 2012-07-02 20:29:42 UTC
From: firedjl
Topic: 1055 Message: 1070

last ditch fix, there must have been tiny crack in the common lead to the regulator and c41,42. tiny wire fixed it.
Anyhow, 3.3 v with and without 1k load. Hopefully smooth from here!
hanks for the suggestions. It looks ugly, but it works...
Don

--- In UHFSDR@yahoogroups.com, "firedjl" <djl@...> wrote:
>
> measured 400k resistance across c41 with the regulator out of circuit. the regulator specs say that this could be too low. will remove c41 and check to see why this resistance is there.
>
> Don
> --- In UHFSDR@yahoogroups.com, "Kees & Sandy" <windy10605@> wrote:
> >
> > OK, so C40, C41, and C42 are installed ? I'd put a little load on the regulator for testing, 1K is fine. You can just connect it from pin 1 to pin 3 of the H2 connector. I'd also check those 3 pins on one side of the 3.3V regulator, pins 1 and 3 as supposed to be tied together with a trace on the bottom of the board, but pin 2 is not supposed to be tied to either pin 1 or pin 3. 73 Kees K5BCQ ---------- Original Message ----------
> > From: "firedjl" <djl@>
> > To: UHFSDR@yahoogroups.com
> > Subject: [UHFSDR] Re: an appeal
> > Date: Sat, 30 Jun 2012 23:23:57 -0000
> >
> >
> > <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">
> > Oh, I haven't populated anything except step 1 in the build document. I probably won't be using an SI570 to start, but an external source. So there's nothing there but r1,ui and associated caps, which is working just fine, and u12 and associated caps, which I'm wrestling with, and FB1.
> > Don
> >
> > --- In UHFSDR@yahoogroups.com, "Kees & Sandy" <windy10605@> wrote:
> > >
> > > I think that's good, you eliminated a possibility, now to home in on the problem. Are U13 and the Si570 oriented correctly (pin #1) ? No solder bridges on the 3 pin side of U12 ? Can you send me a picture(s) offline ? 73 Kees K5BCQ
> >
>

1071. RE: [UHFSDR] Re: an appeal

Yahoo group: UHFSDR
Date: 2012-07-02 21:15:22 UTC
From: MIKE DURKIN
Topic: 1055 Message: 1071

Hope yours is the only one .... I have 1 more to build.....

Mike KC7NOA

-----Original Message-----

From: firedjl
Sent: 2 Jul 2012 20:40:10 GMT
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Re: an appeal

last ditch fix, there must have been tiny crack in the common lead to the regulator and c41,42. tiny wire fixed it.
Anyhow, 3.3 v with and without 1k load. Hopefully smooth from here!
hanks for the suggestions. It looks ugly, but it works...
Don

--- In UHFSDR@yahoogroups.com, "firedjl" <djl@...> wrote:
>
> measured 400k resistance across c41 with the regulator out of circuit. the regulator specs say that this could be too low. will remove c41 and check to see why this resistance is there.
>
> Don
> --- In UHFSDR@yahoogroups.com, "Kees & Sandy" <windy10605@> wrote:
> >
> > OK, so C40, C41, and C42 are installed ? I'd put a little load on the regulator for testing, 1K is fine. You can just connect it from pin 1 to pin 3 of the H2 connector. I'd also check those 3 pins on one side of the 3.3V regulator, pins 1 and 3 as supposed to be tied together with a trace on the bottom of the board, but pin 2 is not supposed to be tied to either pin 1 or pin 3. 73 Kees K5BCQ ---------- Original Message ----------
> > From: "firedjl" <djl@>
> > To: UHFSDR@yahoogroups.com
> > Subject: [UHFSDR] Re: an appeal
> > Date: Sat, 30 Jun 2012 23:23:57 -0000
> >
> >
> > <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">
> > Oh, I haven't populated anything except step 1 in the build document. I probably won't be using an SI570 to start, but an external source. So there's nothing there but r1,ui and associated caps, which is working just fine, and u12 and associated caps, which I'm wrestling with, and FB1.
> > Don
> >
> > --- In UHFSDR@yahoogroups.com, "Kees & Sandy" <windy10605@> wrote:

> > >
> > > I think that's good, you eliminated a possibility, now to home in on the problem. Are U13 and the Si570 oriented correctly (pin #1) ? No solder bridges on the 3 pin side of U12 ? Can you send me a picture(s) offline ? 73 Kees K5BCQ
> >
>

1072. UHFSDR specs

Yahoo group: UHFSDR
Date: 2012-07-02 23:52:25 UTC
From: E
Topic: 1072 Message: 1072

Does anyone have receiver specs using a known sound card?

Thanks!
73, Gene, W1EBR

1073. Re: [UHFSDR] Re: an appeal

Yahoo group: UHFSDR
Date: 2012-07-02 23:52:51 UTC
From: Sid Boyce
Topic: 1055 Message: 1073

When I built the first one I had a similar issue with U17 pin 4. There was a discontinuity between the via on the bottom of the board and the same via on the top. A wire from the underside of the via through the via to pin 4 fixed it.

However after having the si570A CLK+ fail about a month later followed by CLK- some weeks later and 2 other 570A's DOA I finally got one from George Boudreau that worked and still works.

The curious thing was that the discontinuity had disappeared, may be with all the heat I applied in replacing the bad si570's. The R's and C's between the si570A and U17 and the wire had shifted when using the hot air gun.
73 ... Sid.

On 02/07/12 21:29, firedjl wrote:
>
> last ditch fix, there must have been tiny crack in the common lead to
> the regulator and c41,42. tiny wire fixed it.
> Anyhow, 3.3 v with and without 1k load. Hopefully smooth from here!
> hanks for the suggestions. It looks ugly, but it works...
> Don
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
> "firedjl" <djl@...> wrote:
> >
> > measured 400k resistance across c41 with the regulator out of
> circuit. the regulator specs say that this could be too low. will
> remove c41 and check to see why this resistance is there.
> >
> > Don
> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
> "Kees & Sandy" <windy10605@> wrote:
> > >
> > > OK, so C40, C41, and C42 are installed ? I'd put a little load on
> the regulator for testing, 1K is fine. You can just connect it from
> pin 1 to pin 3 of the H2 connector. I'd also check those 3 pins on one
> side of the 3.3V regulator, pins 1 and 3 as supposed to be tied
> together with a trace on the bottom of the board, but pin 2 is not
> supposed to be tied to either pin 1 or pin 3. 73 Kees K5BCQ ----------
> Original Message ----------
> > > From: "firedjl" <djl@>
> > > To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> > > Subject: [UHFSDR] Re: an appeal
> > > Date: Sat, 30 Jun 2012 23:23:57 -0000
> > >

> > >
> > > <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN"
> "http://www.w3.org/TR/html4/strict.dtd">
> > > Oh, I haven't populated anything except step 1 in the build
> document. I probably won't be using an SI570 to start, but an external
> source. So there's nothing there but r1,ui and associated caps, which
> is working just fine, and u12 and associated caps, which I'm wrestling
> with, and FB1.
> > > Don
> > >
> > > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
> "Kees & Sandy" <windy10605@> wrote:
> > > >
> > > > I think that's good, you eliminated a possibility, now to home
> in on the problem. Are U13 and the Si570 oriented correctly (pin #1) ?
> No solder bridges on the 3 pin side of U12 ? Can you send me a
> picture(s) offline ? 73 Kees K5BCQ
> > >
> >
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1074. si 570

Yahoo group: UHFSDR
Date: 2012-07-03 23:07:53 UTC
From: firedjl
Topic: 1074 Message: 1074

I've decided to implement the si570. Now comes my next plaint...
where the #^^^*%*&%$#@ do I buy one? SI doesn't want to sell just one ? digi key doesn't even recognize the number, arrow doesn't either, even though SI claims Arroow for a distributor. WB6DHW references only the manufacturer. This "kit" is gonna drive me up the wall.....
rant rant rant
Don

1075. RE: [UHFSDR] si 570

Yahoo group: UHFSDR
Date: 2012-07-04 00:33:51 UTC
From: The Silver Fox
Topic: 1074 Message: 1075
Attachments: 2 described; binary payloads are missing from this source WARC

I can sell you one for $75.

73,

Alan - W6ARH

<http://mobokits.stormwarning.org/> http://mobokits.stormwarning.org/

<http://wb6dhw.com/For_Sale.html> http://wb6dhw.com/For_Sale.html

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
firedjl
Sent: Tuesday, July 03, 2012 4:08 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] si 570

I've decided to implement the si570. Now comes my next plaint...
where the #^^^*%*&%$#@ do I buy one? SI doesn't want to sell just one ? digi
key doesn't even recognize the number, arrow doesn't either, even though SI
claims Arroow for a distributor. WB6DHW references only the manufacturer.
This "kit" is gonna drive me up the wall.....
rant rant rant
Don

1076. BPF

Yahoo group: UHFSDR
Date: 2012-07-04 02:00:10 UTC
From: MIKE DURKIN
Topic: 743 Message: 1076

I could have sworn I've already asked this question....

What's the max will power the band pass filter from dave handled ...

I don't see it in my email ..

Mike KC7NOA

1077. Re: [UHFSDR] si 570

Yahoo group: UHFSDR
Date: 2012-07-04 02:07:37 UTC
From: Glen Overby
Topic: 1074 Message: 1077

On Tue, Jul 3, 2012 at 6:07 PM, firedjl <djl@...> wrote:

> **
>
>
> I've decided to implement the si570. Now comes my next plaint...
> where the #^^^*%*&%$#@ do I buy one? SI doesn't want to sell just one ?
>

km5h.softrockradio.com sells the lower speed grade chips. If you're using the UHFSDR on HF, that chip should be good enough.

Glen, kc0iyt

1078. Filters for 2m and up

Yahoo group: UHFSDR
Date: 2012-07-04 02:09:00 UTC
From: Glen Overby
Topic: 1078 Message: 1078

downeastmicrowave.com is selling Temwell helical filters for 144, 222 and 432. If you're using the UHFSDR on one of those bands, this might be useful.

Glen, kc0iyt

1079. RE: [UHFSDR] Filters for 2m and up

Yahoo group: UHFSDR
Date: 2012-07-04 02:17:24 UTC
From: MIKE DURKIN
Topic: 1078 Message: 1079

Good deal ... hope its not too spendy, might be a good addition to Dave's BPF.

Mike KC7NOA

-----Original Message-----

From: Glen Overby
Sent: 4 Jul 2012 02:09:03 GMT
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Filters for 2m and up

downeastmicrowave.com is selling Temwell helical filters for 144, 222 and 432. If you're using the UHFSDR on one of those bands, this might be useful.

Glen, kc0iyt

1080. Re: [UHFSDR] si 570

Yahoo group: UHFSDR
Date: 2012-07-04 02:27:54 UTC
From: Dave
Topic: 1074 Message: 1080

Glen:
Lower speed chips are OK as long as they have 2 outputs(ie LVDS, LVPECL, etc). The CMOS will not work as the UHFSDR needs both outputs to produce the quadrature signals.

Dave - WB6DHW
<http://wb6dhw.com>

On 7/3/2012 7:07 PM, Glen Overby wrote:
> On Tue, Jul 3, 2012 at 6:07 PM, firedjl <djl@...
> <mailto:djl@...>> wrote:
>
> I've decided to implement the si570. Now comes my next plaint...
> where the #^^^*%*&%$#@ do I buy one? SI doesn't want to sell just
> one ?
>
>
> km5h.softrockradio.com <http://km5h.softrockradio.com> sells the lower
> speed grade chips. If you're using the UHFSDR on HF, that chip should
> be good enough.
>
> Glen, kc0iyt
>

1081. Re: [UHFSDR] si 570

Yahoo group: UHFSDR
Date: 2012-07-04 04:06:57 UTC
From: Dave
Topic: 1074 Message: 1081

firedjl:

I was just able to go to silabs.com and put 1 Si570 with lvpel at
19.982 MHz into the cart. Listed price was $98.71. Cheaper to buy one
from Alan(he buys in quantity).

Dave - WB6DHW
<http://wb6dhw.com>

On 7/3/2012 4:07 PM, firedjl wrote:
>
> I've decided to implement the si570. Now comes my next plaint...
> where the #^^^*%*&%$#@ do I buy one? SI doesn't want to sell just one
> ? digi key doesn't even recognize the number, arrow doesn't either,
> even though SI claims Arroow for a distributor. WB6DHW references only
> the manufacturer. This "kit" is gonna drive me up the wall.....
> rant rant rant
> Don
>
>

1082. Re: [UHFSDR] Filters for 2m and up

Yahoo group: UHFSDR
Date: 2012-07-04 04:59:05 UTC
From: Kostas Ioannidis
Topic: 1078 Message: 1082

Hi,
For 2m you could also experiment with this BPF:
http://yu1lm.qrpradio.com/2m%20BP%20FILTER-YU1LM.pdf

73 de SV1IXP

UHFSDR + USB2SDR + BPF/LPF + 100WPA HF/VHF/UHF

On Wed, Jul 4, 2012 at 5:17 AM, MIKE DURKIN <Patriot121@...> wrote:

> **
>
>
> Good deal ... hope its not too spendy, might be a good addition to
> Dave's BPF.
>
> Mike KC7NOA
>
> -----Original Message-----
>
> From: Glen Overby
> Sent: 4 Jul 2012 02:09:03 GMT
> To: UHFSDR@yahoogroups.com
> Subject: [UHFSDR] Filters for 2m and up
>
>
>
> downeastmicrowave.com is selling Temwell helical filters for 144, 222 and
> 432. If you're using the UHFSDR on one of those bands, this might be
> useful.
>
> Glen, kc0iyt
>
>
>

1083. Re: [UHFSDR] si 570

Yahoo group: UHFSDR
Date: 2012-07-04 06:41:23 UTC
From: Stephen Farthing
Topic: 1074 Message: 1083

Guys,

Jan, G0BBL, at www.SDR-Kits.net carries the whole range of Si570s and ships world wide. He is based in Trowbridge, England.

73s from a rainy England, Steve G0XAR

--
Wisdom demands a new orientation of science and technology towards the organic, the gentle, the non-violent, the elegant and beautiful. E. F. Schumacher

1084. Re: [UHFSDR] si 570

Yahoo group: UHFSDR
Date: 2012-07-04 06:55:24 UTC
From: Dave
Topic: 1074 Message: 1084

Steve:
I just checked the SDR-Kits site. Any of the Si570's offered there will work except for the CMOS versions. The output resistors for the LVDS are different than for LVPECL, but are called out on the schematic.

Dave - WB6DHW
<http://wb6dhw.com>

On 7/3/2012 11:41 PM, Stephen Farthing wrote:
>
> Guys,
>
> Jan, G0BBL, at www.SDR-Kits.net carries the whole range of Si570s and
> ships world wide. He is based in Trowbridge, England.
>
> 73s from a rainy England, Steve G0XAR
>
> --
> Wisdom demands a new orientation of science and technology towards the
> organic, the gentle, the non-violent, the elegant and beautiful. E. F.
> Schumacher
>
>

1085. PDF upload of my setup

Yahoo group: UHFSDR
Date: 2012-07-12 07:21:51 UTC
From: Kostas Ioannidis
Topic: 1085 Message: 1085

I just uploaded a first draft pdf of my SDR setup in the files section
of this group.

73 de SV1IXP

UHFSDR + USB2SDR + BPF/LPF + 100WPA HF/VHF/UHF

1086. Re: PDF upload of my setup

Yahoo group: UHFSDR
Date: 2012-07-12 10:56:40 UTC
From: Flemming Nielsen
Topic: 1085 Message: 1086

Hi Kostas .

 Really nice work ! :-) .

Do you have a pcb layout for your 2m modul ?

73 vy oz5agk / Flemming

1087. Re: PDF upload of my setup

Yahoo group: UHFSDR
Date: 2012-07-12 22:51:50 UTC
From: Robert
Topic: 1085 Message: 1087

Very nice! It does not look like the qrp-pa 2008 is still available or am I looking in the wrong place?

Bob - wd6dod

1088. Re: [UHFSDR] Re: PDF upload of my setup

Yahoo group: UHFSDR
Date: 2012-07-12 23:47:49 UTC
From: Sid Boyce
Topic: 1085 Message: 1088

http://www.qrpproject.de/UK/qrppa2008.html
There is also a 20W PA by K5BCQ - I have one.
http://www.qsl.net/k/k5bcq/Kits/Kits.html
73 ... Sid.

On 12/07/12 23:51, Robert wrote:
>
> Very nice! It does not look like the qrp-pa 2008 is still available or
> am I looking in the wrong place?
>
> Bob - wd6dod
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1089. RE: [UHFSDR] Re: PDF upload of my setup

Yahoo group: UHFSDR
Date: 2012-07-13 00:08:41 UTC
From: The Silver Fox
Topic: 1085 Message: 1089

Note that there is a computer controlled multi-filter board with on-board temperature sensing and outboard control of other devices and a Power/SWR sensor. This is the mobokit.

73,

Alan - W6ARH

<http://mobokits.stormwarning.org/> http://mobokits.stormwarning.org/

<http://wb6dhw.com/For_Sale.html> http://wb6dhw.com/For_Sale.html

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Sid Boyce
Sent: Thursday, July 12, 2012 4:48 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: PDF upload of my setup

http://www.qrpproject.de/UK/qrppa2008.html
There is also a 20W PA by K5BCQ - I have one.
http://www.qsl.net/k/k5bcq/Kits/Kits.html
73 ... Sid.

On 12/07/12 23:51, Robert wrote:

Very nice! It does not look like the qrp-pa 2008 is still available or am I looking in the wrong place?

Bob - wd6dod

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1090. Keying board from PC

Yahoo group: UHFSDR
Date: 2012-07-17 15:55:15 UTC
From: JOS C
Topic: 1090 Message: 1090

When keying the UHFSDR when using a PC with LPT1
I noticed while doing some test that U4 receive MMIC Vcc was not switching off when the PC was in transmit. Since most modern PC's use 3.3 volt logic on the LPT1 leads that the board required 5.0 volts and I didn't want to build up another circuit plus the rest of the TX keying worked OK.
I modified the U4 control circuit as follows.
Remove diode D1 from board add new in4148 diode or similar with anode
connected to Q7 (FET) gate and the cathode connected to U6 pins 3&4.
this will provide the necessary 5v when in the TX mode.
Note: I use the AS159/169 switches if the HMC544 is used you may have to connect to U6 pins 8&13 instead of 3&4.

Joe wa9cgz

1091. Re: [UHFSDR] Keying board from PC

Yahoo group: UHFSDR
Date: 2012-07-18 00:04:13 UTC
From: Sid Boyce
Topic: 1090 Message: 1091

I think the build instructions cater for the different chips.
73 ... Sid.

On 17/07/12 16:55, JOS C wrote:
>
> When keying the UHFSDR when using a PC with LPT1
> I noticed while doing some test that U4 receive MMIC Vcc was not
> switching off when the PC was in transmit. Since most modern PC's use
> 3.3 volt logic on the LPT1 leads that the board required 5.0 volts and
> I didn't want to build up another circuit plus the rest of the TX
> keying worked OK.
> I modified the U4 control circuit as follows.
> Remove diode D1 from board add new in4148 diode or similar with anode
> connected to Q7 (FET) gate and the cathode connected to U6 pins 3&4.
> this will provide the necessary 5v when in the TX mode.
> Note: I use the AS159/169 switches if the HMC544 is used you may have
> to connect to U6 pins 8&13 instead of 3&4.
>
> Joe wa9cgz
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1092. ADUM1251 Step 45 problem - help please

Yahoo group: UHFSDR
Date: 2012-07-20 19:06:04 UTC
From: Chris
Topic: 1092 Message: 1092

Hi everyone,
I am new to this group and have been trying to read up on advice while waiting for my kit to arrive.
Now I have got as far as Step 45 and need advice. All checks and measurements up to this point are OK. But I get 4.91v on H1-3 when grounding TP2.
I have tried reflowing all legs of the ADUM1251. Then checked resistance between legs and any components they connect to. Checked values of all surrounding components - no luck. If I disconnect TP2 from ground H1-3 still shows 4.91v.
Before I send off for a new ADUM does anyone have any other suggestions please?
73 Chris G0IMX

1093. RX I/Q phase and gain results

Yahoo group: UHFSDR
Date: 2012-07-24 20:55:10 UTC
From: JOS C
Topic: 1093 Message: 1093

Recently I finished my second build of this project. I was involved with the first board testing. some of the parts were removed from the old board to save money and time. For example I used different mixers as I had them in stock and didn't plan on anything higher than 2meters. I used two sound cards for testing A Sound Blaster 24 live USB for the signal input and the on board sound for TX and the speaker.
When first doing receiver checks I use ROCKY this program can provide a graphical display of the receiver phase and gain errors I was surprised to see a large phase and gain error with some strange looking hooks on the display. After doing some experiments I modified the circuit slightly to try to improve things. The largest mprovement was realized by simply bridging a 10ufd tantalum capacitor in parallel wit each of the following capacitors C57 C58 C21 C71. Additionally I modified some other component values for further phase and gain improvement. Please check photo section under WA9CGZ foR results.

Anyone on list that has a good signal generator with level control interested in doing some before and after test after adding the capacitors? from what I can tell is that the mixer terminating varies with the the I/Q frequency because of the coupling capacitor value is only .1UFD.

Now the disclaimer I'm not a engineer but have good test equipment and their could be other issues caused by my changes on my board. I removed the temporary tantalum capacitors and replaced the .1's with 10ufd chips.

Joe wa9cgz

1094. Re: ADUM1251 Step 45 problem - help please

Yahoo group: UHFSDR
Date: 2012-07-25 10:31:47 UTC
From: Chris
Topic: 1092 Message: 1094

Well..... without any suggestions from the group I have replaced the U13 chip (ADUM1251) and tested again. All checks 32-43 are fine but again not Step 45. This time I get a different voltage - 1.5v. Wow - things are getting better - I wonder how many times I need to replace the chip before it gets down below 0.82v reading?
I cannot think of anything else to try so I will just carry on with the Si570 install and see what happens. In the meantime if anyone has had this problem before and solved it please speak up.
73 Chris G0IMX

--- In UHFSDR@yahoogroups.com, "Chris" <clacey@...> wrote:
>
> Hi everyone,
> I am new to this group and have been trying to read up on advice while waiting for my kit to arrive.
> Now I have got as far as Step 45 and need advice. All checks and measurements up to this point are OK. But I get 4.91v on H1-3 when grounding TP2.
>
> 73 Chris G0IMX
>

1095. Re: [UHFSDR] Re: PDF upload of my setup

Yahoo group: UHFSDR
Date: 2012-07-25 13:19:18 UTC
From: Kostas Ioannidis
Topic: 1085 Message: 1095

I uploaded the PCB for the 2m module (Beware althought it works it is in "beta" testing now!) in the files section as a psd file. The reverse side is all copper ground.

73 de SV1IXP

PS. I personally used the qrp-pa 2008 because it needs 10mW input for a 10W output which matches perfectly the
output power coming from the uhfsdr board.

UHFSDR + USB2SDR + BPF/LPF + 100WPA HF/VHF/UHF

1096. Re: [UHFSDR] Re: PDF upload of my setup

Yahoo group: UHFSDR
Date: 2012-07-25 17:27:01 UTC
From: John
Topic: 1085 Message: 1096

Kostas, do you have the schematic with component values for the qrp-pa 2008 ? I believe the earlier version used 2SC1971 and the later version MOSFETs

73 John G3UGY

> I uploaded the PCB for the 2m module (Beware althought it works it is in "beta" testing now!) in the files section as a psd file. The reverse side is all copper ground.
>
> 73 de SV1IXP
>
> PS. I personally used the qrp-pa 2008 because it needs 10mW input for a 10W output which matches perfectly the
> output power coming from the uhfsdr board.

1097. RE: [UHFSDR] Re: Full Kit Status

Yahoo group: UHFSDR
Date: 2012-07-27 22:00:03 UTC
From: MIKE DURKIN
Topic: 238 Message: 1097

Still 200$ usd for a full kit Alan ?

To: UHFSDR@yahoogroups.com
From: alan.r.hill@...
Date: Wed, 27 Jun 2012 07:35:52 -0700
Subject: RE: [UHFSDR] Re: Full Kit Status

Yes. I have components to create the kits for anyone who would like to order one. There is a two to three week backlog of kit orders at the moment. I lost about a week of time doing Field Day. The kits are $200 USD and $204 for DX orders. Customs requires a phone number for DX customs forms. Payment is via paypal to my email address.73,Alan – W6ARH http://mobokits.stormwarning.org/http://wb6dhw.com/For_Sale.html From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of goofy_36
Sent: Wednesday, June 27, 2012 5:32 AM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Re: Full Kit Status I am new to this group. Are they any full kits left or will more be coming? Currently I am building a Softrock RXTX Ensemble. This looks like a nice follow on project.

Thanks
Dave KB9GPM

--- In UHFSDR@yahoogroups.com, "The Silver Fox" <alan.r.hill@...> wrote:
>
> I will not be able to fill any further orders until the next batch of
> Si570's arrive in 6-7 weeks. If you are interested in ordering, I will
> continue to accept orders which I will fill and ship in the order received.
> Thanks to all who have supported this project in the past. In addition to
> the full SDR kits I am selling the UHFSDR 570s for $75. To reward those who
> order the si570s before they arrive I will sell them for $70 until the
> shipment is here.
>
> 73's
>
> Alan - W6ARH
>

1098. RE: [UHFSDR] Re: Full Kit Status

Yahoo group: UHFSDR
Date: 2012-07-28 01:13:26 UTC
From: The Silver Fox
Topic: 238 Message: 1098

Yes. The current cost is $200 USD US and $204 DX. Add $4 extra for the sensitivity improvement chip.

73,

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of MIKE DURKIN
Sent: Friday, July 27, 2012 3:00 PM
To: UHFSDR UHFSDR
Subject: RE: [UHFSDR] Re: Full Kit Status

Still 200$ usd for a full kit Alan ?

To: UHFSDR@yahoogroups.com
From: alan.r.hill@...
Date: Wed, 27 Jun 2012 07:35:52 -0700
Subject: RE: [UHFSDR] Re: Full Kit Status

Yes. I have components to create the kits for anyone who would like to order one. There is a two to three week backlog of kit orders at the moment. I lost about a week of time doing Field Day. The kits are $200 USD and $204 for DX orders. Customs requires a phone number for DX customs forms. Payment is via paypal to my email address.

73,

Alan - W6ARH

http://mobokits.stormwarning.org/

http://wb6dhw.com/For_Sale.html

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of goofy_36
Sent: Wednesday, June 27, 2012 5:32 AM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Re: Full Kit Status

I am new to this group. Are they any full kits left or will more be coming? Currently I am building a Softrock RXTX Ensemble. This looks like a nice follow on project.

Thanks
Dave KB9GPM

--- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com> , "The Silver Fox" <alan.r.hill@...> wrote:
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> I will not be able to fill any further orders until the next batch of
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> order the si570s before they arrive I will sell them for $70 until the
> shipment is here.
>
> 73's
>
> Alan - W6ARH
>

1099. RE: [UHFSDR] Re: Full Kit Status

Yahoo group: UHFSDR
Date: 2012-07-28 02:01:44 UTC
From: MIKE DURKIN
Topic: 238 Message: 1099

Are there any instructions for the sensitivity improvement?

-----Original Message-----

From: The Silver Fox
Sent: 28 Jul 2012 01:13:27 GMT
To: UHFSDR@yahoogroups.com
Subject: RE: [UHFSDR] Re: Full Kit Status

Yes. The current cost is $200 USD US and $204 DX. Add $4 extra for the sensitivity improvement chip.

73,

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of MIKE DURKIN
Sent: Friday, July 27, 2012 3:00 PM
To: UHFSDR UHFSDR
Subject: RE: [UHFSDR] Re: Full Kit Status

Still 200$ usd for a full kit Alan ?

To: UHFSDR@yahoogroups.com
From: alan.r.hill@...
Date: Wed, 27 Jun 2012 07:35:52 -0700
Subject: RE: [UHFSDR] Re: Full Kit Status

Yes. I have components to create the kits for anyone who would like to order one. There is a two to three week backlog of kit orders at the moment. I lost about a week of time doing Field Day. The kits are $200 USD and $204 for DX orders. Customs requires a phone number for DX customs forms. Payment is via paypal to my email address.

73,

Alan - W6ARH

http://mobokits.stormwarning.org/

http://wb6dhw.com/For_Sale.html

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of goofy_36
Sent: Wednesday, June 27, 2012 5:32 AM
To: UHFSDR@yahoogroups.com

Subject: [UHFSDR] Re: Full Kit Status

I am new to this group. Are they any full kits left or will more be coming? Currently I am building a Softrock RXTX Ensemble. This looks like a nice follow on project.

Thanks
Dave KB9GPM

--- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com> , "The Silver Fox" <alan.r.hill@...> wrote:
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> order the si570s before they arrive I will sell them for $70 until the
> shipment is here.
>
> 73's
>
> Alan - W6ARH
>

1100. FW: [UHFSDR] UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-07-28 03:28:26 UTC
From: The Silver Fox
Topic: 1100 Message: 1100

FYI

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Ed
Sent: Wednesday, February 22, 2012 1:15 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] UHFSDR Sensitivity Improvement

Hello All you UHFSDR lovers,

I decided to do some further measurements of the MDS on my UHFSDR.

I started by measuring the UHFSDR unmodified in the following set up conditions:

Software: WRplus
PC: ASPIRE One Net book
Signal Generator: HP with additional Microwave attenuators.
Mode : CW
Frequency: 144.300 Mhz
Bandwidth: 500Hz
AGC:Off

The result for 1 dB signal above noise power : -133dBm.

I then decided to change U4 (BGA612) to a different type of MMIC, the SPF5043Z. This is a 50 Mhz to 4 Ghz part with high dynamic range. It has a lower noise figure and higher gain than the BGA612.
The mod was simple, remove the BGA612, install the SPF5043Z taking care to check the different orientation and replace R3 (120 ohm)with a 100nH Inductor.

The result for 1 dB signal above noise power : -145dBm

So if you want a super sensitive VHF/UHF front end, you got it !

Only possible down side is that the IC starts to degrade below 50 Mhz. It could still be adequate for the DC bands if you really must use the UHFSDR for that purpose.

What a remarkable little radio this is.

Regards

Ed GM3SBC

1101. Re: FW: [UHFSDR] UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-07-28 15:04:13 UTC
From: jeff@123jeff.com
Topic: 1100 Message: 1101

Hi Ed,

Do you have any data for the 'DC' bands NF with the new SPF5043Z? I
do a lot on 40/ 20m and I would hate to wreck the UHFSDR for 40/ 20m
while improving 6/ 2m/ 70cm performance. Your thoughts??

73 & Thanks,

Jeff W3HVU

>
> From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Ed
> Sent: Wednesday, February 22, 2012 1:15 PM
> To: UHFSDR@yahoogroups.com
> Subject: [UHFSDR] UHFSDR Sensitivity Improvement

> Hello All you UHFSDR lovers,
>
> I decided to do some further measurements of the MDS on my UHFSDR.
>
> I started by measuring the UHFSDR unmodified in the following set up
> conditions:
>
> Software: WRplus
> PC: ASPIRE One Net book
> Signal Generator: HP with additional Microwave attenuators.
> Mode : CW
> Frequency: 144.300 Mhz
> Bandwidth: 500Hz
> AGC:Off
>
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> I then decided to change U4 (BGA612) to a different type of MMIC, the
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> The mod was simple, remove the BGA612, install the SPF5043Z taking care to
> check the different orientation and replace R3 (120 ohm)with a 100nH
> Inductor.
>
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> Only possible down side is that the IC starts to degrade below 50 Mhz. It
> could still be adequate for the DC bands if you really must use the UHFSDR

> for that purpose.
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> What a remarkable little radio this is.
>
> Regards
>
> Ed GM3SBC
>
>>

1102. Re: FW: [UHFSDR] UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-07-28 15:51:35 UTC
From: Jim Sanford
Topic: 1100 Message: 1102

Do you still have some of those devices for sale? Or was that a different device?

Just ordered the last pice I need (power supply for atlas/ozy/etc.) to get it on the air.

Thanks & 73,
jim
wb4gcs@...

On 7/27/2012 11:28 PM, The Silver Fox wrote:
>
> FYI
>
> *From:*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] *On
> Behalf Of *Ed
> *Sent:* Wednesday, February 22, 2012 1:15 PM
> *To:* UHFSDR@yahoogroups.com
> *Subject:* [UHFSDR] UHFSDR Sensitivity Improvement
>
> Hello All you UHFSDR lovers,
>
> I decided to do some further measurements of the MDS on my UHFSDR.
>
> I started by measuring the UHFSDR unmodified in the following set up
> conditions:
>
> Software: WRplus
> PC: AS! PIRE One Net book
> Signal Generator: HP with additional Microwave attenuators.
> Mode : CW
> Frequency: 144.300 Mhz
> Bandwidth: 500Hz
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> The result for 1 dB signal above noise power : -133dBm.
>
> I then decided to change U4 (BGA612) to a different type of MMIC, the
> SPF5043Z. This is a 50 Mhz to 4 Ghz part with high dynamic range. It
> has a lower noise figure and higher gain than the BGA612.
> The mod was simple, remove the BGA612, install the SPF5043Z taking
> care to check the different orientation and replace R3 (120 ohm)with
> a 100nH Inductor.
>
> The result for 1 dB signal above noise power : -145dBm
>

> So if you want a super sensitive VHF/UHF front end, you got it !
>
> Only possible down side is that the IC starts to degrade below 50 Mhz.
> It could still be adequate for the DC bands if you really must use the
> UHFSDR for that purpose.
>
> What a remarkable little radio this is.
>
> Regards
>
> Ed GM3SBC
>
>

1103. RE: FW: [UHFSDR] UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-07-28 16:00:27 UTC
From: The Silver Fox
Topic: 1100 Message: 1103

My price is $4 a chip plus $3 shipping. The $3 charge only applies to the purchase not the number of chips. That is, the cost to ship multiples is still $3.

73,

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Jim Sanford
Sent: Saturday, July 28, 2012 8:52 AM
To: UHFSDR@yahoogroups.com
Subject: Re: FW: [UHFSDR] UHFSDR Sensitivity Improvement

Do you still have some of those devices for sale? Or was that a different device?

Just ordered the last pice I need (power supply for atlas/ozy/etc.) to get it on the air.

Thanks & 73,
jim
wb4gcs@...

On 7/27/2012 11:28 PM, The Silver Fox wrote:

FYI

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Ed
Sent: Wednesday, February 22, 2012 1:15 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] UHFSDR Sensitivity Improvement

Hello All you UHFSDR lovers,

I decided to do some further measurements of the MDS on my UHFSDR.

I started by measuring the UHFSDR unmodified in the following set up conditions:

Software: WRplus
PC: AS! PIRE One Net book
Signal Generator: HP with additional Microwave attenuators.
Mode : CW
Frequency: 144.300 Mhz
Bandwidth: 500Hz
AGC:Off

The result for 1 dB signal above noise power : -133dBm.

I then decided to change U4 (BGA612) to a different type of MMIC, the SPF5043Z. This is a 50 Mhz to 4 Ghz part with high dynamic range. It has a lower noise figure and higher gain than the BGA612.
The mod was simple, remove the BGA612, install the SPF5043Z taking care to check the different orientation and replace R3 (120 ohm)with a 100nH Inductor.

The result for 1 dB signal above noise power : -145dBm

So if you want a super sensitive VHF/UHF front end, you got it !

Only possible down side is that the IC starts to degrade below 50 Mhz. It could still be adequate for the DC bands if you really must use the UHFSDR for that purpose.

What a remarkable little radio this is.

Regards

Ed GM3SBC

1104. Re: FW: [UHFSDR] UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-07-28 16:13:34 UTC
From: Jim Sanford
Topic: 1100 Message: 1104

Thanks.
Let me get what I have going, and I'll go from there. I don't need the additional sensitivity, (this will be IF for my microwave stack) but like the lower NF and higher dynamic range.
73,
Jim
wb4gcs@...

On 7/28/2012 12:00 PM, The Silver Fox wrote:
>
> My price is $4 a chip plus $3 shipping. The $3 charge only applies to
> the purchase not the number of chips. That is, the cost to ship
> multiples is still $3.
>
> 73,
>
> Alan -- W6ARH
>
> *From:*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] *On
> Behalf Of *Jim Sanford
> *Sent:* Saturday, July 28, 2012 8:52 AM
> *To:* UHFSDR@yahoogroups.com
> *Subject:* Re: FW: [UHFSDR] UHFSDR Sensitivity Improvement
>
> Do you still have some of those devices for sale? Or was that a
> different device?
>
> Just ordered the last pice I need (power supply for atlas/ozy/etc.) to
> get it on the air.
>
> Thanks & 73,
> jim
> wb4gcs@... <mailto:wb4gcs@...>
>
> On 7/27/2012 11:28 PM, The Silver Fox wrote:
>
> FYI
>
> *From:*UHFSDR@yahoogroups.com [
> <mailto:UHFSDR@yahoogroups.com>mailto:UHFSDR@yahoogroups .com
> <mailto:UHFSDR@yahoogroups.com>] *On Behalf Of *Ed
> *Sent:* Wednesday, February 22, 2012 1:15 PM
> *To:* UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> *Subject:* [UHFSDR] UHFSDR Sensitivity Improvement
>

> Hello All you UHFSDR lovers,
>
> I decided to do some further measurements of the MDS on my UHFSDR.
>
> I started by measuring the UHFSDR unmodified in the following set
> up conditions:
>
> Software: WRplus
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> care to check the different orientation and replace R3 (120 ohm
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> So if you want a super sensitive VHF/UHF front end, you got it !
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> must use the UHFSDR for that purpose.
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> What a remarkable little radio this is.
>
> Regards
>
> Ed GM3SBC
>
>

1105. Re: FW: [UHFSDR] UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-07-29 12:09:57 UTC
From: Ed
Topic: 1100 Message: 1105

Hi Jeff,

Please see my posts on UHFSDR Sensitivity Improvement, Message Numbers 714, 719 and 733.

I use my UHFSDR on all the " Low Bands " as well as VHF , the performance is very good indeed. Each band requires a Bandpass Filter to be fitted on the RX input.
You shall find that if you use a large antenna for the LF bands you may require an attenuator in the evenings when there are VERY strong commercial broadcast stations present. I regularly use up to 20 dB in series with the antenna for this purpose.
During the day the sensitivity is always limited by the external noise level and not the UHFSDR.

Regards Ed GM3SBC

--- In UHFSDR@yahoogroups.com, jeff@... wrote:
>
> Hi Ed,
>
> Do you have any data for the 'DC' bands NF with the new SPF5043Z? I
> do a lot on 40/ 20m and I would hate to wreck the UHFSDR for 40/ 20m
> while improving 6/ 2m/ 70cm performance. Your thoughts??
>
> 73 & Thanks,
>
> Jeff W3HVU
> ---
> >
> > From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Ed
> > Sent: Wednesday, February 22, 2012 1:15 PM
> > To: UHFSDR@yahoogroups.com
> > Subject: [UHFSDR] UHFSDR Sensitivity Improvement
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> > Software: WRplus
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> > Regards
> >
> > Ed GM3SBC
> >
> >>
>

1106. Re: FW: [UHFSDR] UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-07-29 16:02:46 UTC
From: Kees & Sandy
Topic: 1100 Message: 1106
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1107. UHFSDR connections

Yahoo group: UHFSDR
Date: 2012-07-30 00:48:15 UTC
From: Jim Sanford
Topic: 1100 Message: 1107

All:

I am getting close to attempting to hook up my UHFSDR. I'd like to use the HPSDR Janus/Ozy as the interface, which leads to several questions:
1. Has anyone done this already? If so, what were connections between HPSDR boards and UHFSDR, and what were configuration settings in PowerSDR-IQ.
2 I saw a note recently which suggested that transmit audio could be provided from the PC and receive audio sent to the PC with the result that only connection between PC and UHFSDR was the USB cable. How was this achieved?
3. Has anyone tried extending the length of the USB link by using the available USB-to-Ethernet and Ethernet-to-USB boxes? How did this work out?

My interest is in being able to remote UHFSDR about 300 feet away where my tower is, and then use it as the IF for my microwave stack.

Thanks & 73,
Jim
wb4gcs@...

1108. testing

Yahoo group: UHFSDR
Date: 2012-07-30 01:55:50 UTC
From: Jim Sanford
Topic: 198 Message: 1108

Posted a message hours ago and it hasn't come through...or bounced.
Jim

1109. RE: [UHFSDR] testing

Yahoo group: UHFSDR
Date: 2012-07-30 03:12:53 UTC
From: MIKE DURKIN
Topic: 198 Message: 1109

Its there now ...

-----Original Message-----

From: Jim Sanford
Sent: 30 Jul 2012 01:56:12 GMT
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] testing

Posted a message hours ago and it hasn't come through...or bounced.
Jim

1110. Re: [UHFSDR] UHFSDR connections

Yahoo group: UHFSDR
Date: 2012-07-30 03:14:04 UTC
From: Sid Boyce
Topic: 1100 Message: 1110

I can supply one answer, to question 2, the USB2SDR or SDR-Widget is used.
73 ... Sid.

On 30/07/12 01:48, Jim Sanford wrote:
> All:
>
> I am getting close to attempting to hook up my UHFSDR. I'd like to use
> the HPSDR Janus/Ozy as the interface, which leads to several questions:
> 1. Has anyone done this already? If so, what were connections between
> HPSDR boards and UHFSDR, and what were configuration settings in
> PowerSDR-IQ.
> 2 I saw a note recently which suggested that transmit audio could be
> provided from the PC and receive audio sent to the PC with the result
> that only connection between PC and UHFSDR was the USB cable. How was
> this achieved?
> 3. Has anyone tried extending the length of the USB link by using the
> available USB-to-Ethernet and Ethernet-to-USB boxes? How did this work out?
>
> My interest is in being able to remote UHFSDR about 300 feet away where
> my tower is, and then use it as the IF for my microwave stack.
>
> Thanks & 73,
> Jim
> wb4gcs@...
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> ------------------------------------
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> Yahoo! Groups Links
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Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1111. Re: [UHFSDR] UHFSDR connections

Yahoo group: UHFSDR
Date: 2012-07-30 03:34:24 UTC
From: Jim Sanford
Topic: 1100 Message: 1111

Sid:
Thanks. I'm aware of those. USB2SDR is a bit pricey, and I'm not sure
about the other. I was really hoping to use what I already have.

Thanks & 73,
jim
wb4gcs@...

On 7/29/2012 11:14 PM, Sid Boyce wrote:
>
> I can supply one answer, to question 2, the USB2SDR or SDR-Widget is used.
> 73 ... Sid.
>
> On 30/07/12 01:48, Jim Sanford wrote:
> > All:
> >
> > I am getting close to attempting to hook up my UHFSDR. I'd like to use
> > the HPSDR Janus/Ozy as the interface, which leads to several questions:
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> > PowerSDR-IQ.
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> work out?
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> > My interest is in being able to remote UHFSDR about 300 feet away where
> > my tower is, and then use it as the IF for my microwave stack.
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> > Thanks & 73,
> > Jim
> > wb4gcs@... <mailto:wb4gcs%40amsat.org>
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> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
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>

1112. RE: [UHFSDR] UHFSDR connections

Yahoo group: UHFSDR
Date: 2012-07-30 06:09:16 UTC
From: MIKE DURKIN
Topic: 1100 Message: 1112

How much is SDR-Widget any ways? Which is cheaper?

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: sboyce@...
Date: Mon, 30 Jul 2012 04:14:04 +0100
Subject: Re: [UHFSDR] UHFSDR connections

I can supply one answer, to question 2, the USB2SDR or SDR-Widget is used.

73 ... Sid.

On 30/07/12 01:48, Jim Sanford wrote:

> All:

>

> I am getting close to attempting to hook up my UHFSDR. I'd like to use

> the HPSDR Janus/Ozy as the interface, which leads to several questions:

> 1. Has anyone done this already? If so, what were connections between

> HPSDR boards and UHFSDR, and what were configuration settings in

> PowerSDR-IQ.

> 2 I saw a note recently which suggested that transmit audio could be

> provided from the PC and receive audio sent to the PC with the result

> that only connection between PC and UHFSDR was the USB cable. How was

> this achieved?

> 3. Has anyone tried extending the length of the USB link by using the

> available USB-to-Ethernet and Ethernet-to-USB boxes? How did this work out?

>

> My interest is in being able to remote UHFSDR about 300 feet away where

> my tower is, and then use it as the IF for my microwave stack.

>

> Thanks & 73,

> Jim

> wb4gcs@amsat.org

>

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> Yahoo! Groups Links

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1113. Re: [UHFSDR] UHFSDR connections

Yahoo group: UHFSDR
Date: 2012-07-30 06:55:53 UTC
From: w9amr@aol.com
Topic: 1100 Message: 1113

Hi Mike.

The widget is in the 165-170 dollar range if I remember right, It is a kit!
It is much cheaper then the USB2SDR that was priced around 330.00 last I
new.

Both have there selling good points. The USB2SDR is not a kit. It is
based around Windows platform and PSDR. The Widget is a bit more universal. and
works under Linux and Windows. Widget was intended to be used with the Mobo
but I have interfaced it with many types of SDR's. I am glad to share the
info. Both are are fun.

Larry W9AMR

How much is SDR-Widget any ways? Which is cheaper?

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: sboyce@blueyonder.co.uk
Date: Mon, 30 Jul 2012 04:14:04 +0100
Subject: Re: [UHFSDR] UHFSDR connections

I can supply one answer, to question 2, the USB2SDR or SDR-Widget is used.
73 ... Sid.

On 30/07/12 01:48, Jim Sanford wrote:
> All:
>
> I am getting close to attempting to hook up my UHFSDR. I'd like to use
> the HPSDR Janus/Ozy as the interface, which leads to several questions:
> 1. Has anyone done this already? If so, what were connections between
> HPSDR boards and UHFSDR, and what were configuration settings in
> PowerSDR-IQ.
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> provided from the PC and receive audio sent to the PC with the result
> that only connection between PC and UHFSDR was the USB cable. How was
> this achieved?
> 3. Has anyone tried extending the length of the USB link by using the
> available USB-to-Ethernet and Ethernet-to-USB boxes? How did this work
out?
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> My interest is in being able to remote UHFSDR about 300 feet away where
> my tower is, and then use it as the IF for my microwave stack.
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> Thanks & 73,

> Jim
> _wb4gcs@..._ (mailto:wb4gcs@...)
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1114. Re: [UHFSDR] UHFSDR connections

Yahoo group: UHFSDR
Date: 2012-07-30 12:36:08 UTC
From: Sid Boyce
Topic: 1100 Message: 1114

The site says it's SOLD OUT. George Boudreau has extended availability
in the past depending on a certain threshold of pre-orders due to the
cost of parts.
http://www.yoyodyneconsulting.ca/pages/SDR-Widget.html
Price for a SDR-Widget kit::

* Canada/US $160.80CDN 7-14 business days surface mail
* DX $165.30CDN *6-10 business days AIR MAIL*

http://www.mobokits.stormwarning.org/widget
73 ... Sid.

On 30/07/12 07:09, MIKE DURKIN wrote:
>
> How much is SDR-Widget any ways? Which is cheaper?
>
> Mike KC7NOA
>
> ---
> To: UHFSDR@yahoogroups.com
> From: sboyce@...
> Date: Mon, 30 Jul 2012 04:14:04 +0100
> Subject: Re: [UHFSDR] UHFSDR connections
>
> I can supply one answer, to question 2, the USB2SDR or SDR-Widget is used.
> 73 ... Sid.
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> On 30/07/12 01:48, Jim Sanford wrote:
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> > HPSDR boards and UHFSDR, and what were configuration settings in
> > PowerSDR-IQ.
> > 2 I saw a note recently which suggested that transmit audio could be
> > provided from the PC and receive audio sent to the PC with the result
> > that only connection between PC and UHFSDR was the USB cable. How was
> > this achieved?
> > 3. Has anyone tried extending the length of the USB link by using the
> > available USB-to-Ethernet and Ethernet-to-USB boxes? How did this
> work out?
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> > My interest is in being able to remote UHFSDR about 300 feet away where
> > my tower is, and then use it as the IF for my microwave stack.
> >

> > Thanks & 73,
> > Jim
> > wb4gcs@... <mailto:wb4gcs%40amsat.org>
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1115. Re: [UHFSDR] UHFSDR connections

Yahoo group: UHFSDR
Date: 2012-07-30 12:47:29 UTC
From: Sid Boyce
Topic: 1100 Message: 1115

Hi Larry,
I'm hoping to clear desk space sometime this week to test SDR-Widget number 3 with the second UHFSDR which has the BA612 replaced by the SPF-5043ZDS.

I have been tied up winding toroids for the HiQSDR Preselector BPF's which are now all in place and waiting for clarification of the strapping options as the circuit diagram I'm using is for a V2.6I board and I have a V2.6J which seems to have been changed but no V2.6J circuit diagram is available.
73 ... Sid.

On 30/07/12 07:55, w9amr@... wrote:
>
> Hi Mike.
> The widget is in the 165-170 dollar range if I remember right, It is a
> kit! It is much cheaper then the USB2SDR that was priced around 330.00
> last I new.
> Both have there selling good points. The USB2SDR is not a kit. It is
> based around Windows platform and PSDR. The Widget is a bit more
> universal. and works under Linux and Windows. Widget was intended to
> be used with the Mobo but I have interfaced it with many types of
> SDR's. I am glad to share the info. Both are are fun.
> Larry W9AMR
>
> How much is SDR-Widget any ways? Which is cheaper?
>
> Mike KC7NOA
>
> ---
> To: UHFSDR@yahoogroups.com
> From: sboyce@...
> Date: Mon, 30 Jul 2012 04:14:04 +0100
> Subject: Re: [UHFSDR] UHFSDR connections
>
> I can supply one answer, to question 2, the USB2SDR or SDR-Widget
> is used.
> 73 ... Sid.
>
> On 30/07/12 01:48, Jim Sanford wrote:
> > All:
> >
> > I am getting close to attempting to hook up my UHFSDR. I'd like
> to use
> > the HPSDR Janus/Ozy as the interface, which leads to several

> questions:
> > 1. Has anyone done this already? If so, what were connections
> between
> > HPSDR boards and UHFSDR, and what were configuration settings in
> > PowerSDR-IQ.
> > 2 I saw a note recently which suggested that transmit audio could be
> > provided from the PC and receive audio sent to the PC with the
> result
> > that only connection between PC and UHFSDR was the USB cable.
> How was
> > this achieved?
> > 3. Has anyone tried extending the length of the USB link by
> using the
> > available USB-to-Ethernet and Ethernet-to-USB boxes? How did
> this work out?
> >
> > My interest is in being able to remote UHFSDR about 300 feet
> away where
> > my tower is, and then use it as the IF for my microwave stack.
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> > Thanks & 73,
> > Jim
> > wb4gcs@... <mailto:wb4gcs%40amsat.org>
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> > Yahoo! Groups Links
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1116. Re: [UHFSDR] UHFSDR connections

Yahoo group: UHFSDR
Date: 2012-07-31 02:11:56 UTC
From: w9amr@aol.com
Topic: 1100 Message: 1116

In a message dated 7/30/2012 8:40:16 A.M. Eastern Daylight Time,
sboyce@... writes:

The site says it's SOLD OUT. George Boudreau has extended availability in
the past depending on a certain threshold of pre-orders due to the cost of
parts.
http://www.yoyodyneconsulting.ca/pages/SDR-Widget.html
(http://www.yoyodyneconsulting.ca/pages/SDR-Widget.html)
Price for a SDR-Widget kit::
* Canada/US $160.80CDN 7-14 business days surface mail
* DX $165.30CDN 6-10 business days AIR MAIL
http://www.mobokits.stormwarning.org/widget
(http://www.mobokits.stormwarning.org/widget)
73 ... Sid.

On 30/07/12 07:09, MIKE DURKIN wrote:

How much is SDR-Widget any ways? Which is cheaper?

Mike KC7NOA

_____
To: _UHFSDR@yahoogroups.com_ (mailto:UHFSDR@yahoogroups.com)
From: _sboyce@..._ (mailto:sboyce@blueyonder.co.uk)
Date: Mon, 30 Jul 2012 04:14:04 +0100
Subject: Re: [UHFSDR] UHFSDR connections

I can supply one answer, to question 2, the USB2SDR or SDR-Widget is used.
73 ... Sid.

On 30/07/12 01:48, Jim Sanford wrote:
> All:
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> I am getting close to attempting to hook up my UHFSDR. I'd like to use
> the HPSDR Janus/Ozy as the interface, which leads to several questions:
> 1. Has anyone done this already? If so, what were connections between
> HPSDR boards and UHFSDR, and what were configuration settings in
> PowerSDR-IQ.
> 2 I saw a note recently which suggested that transmit audio could be
> provided from the PC and receive audio sent to the PC with the result
> that only connection between PC and UHFSDR was the USB cable. How was
> this achieved?
> 3. Has anyone tried extending the length of the USB link by using the
> available USB-to-Ethernet and Ethernet-to-USB boxes? How did this work
out?
>
> My interest is in being able to remote UHFSDR about 300 feet away where

> my tower is, and then use it as the IF for my microwave stack.
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> Thanks & 73,
> Jim
> _wb4gcs@..._ (mailto:wb4gcs@...)
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> ----------
>
> Yahoo! Groups Links
>

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1117. Re: [UHFSDR] UHFSDR connections

Yahoo group: UHFSDR
Date: 2012-07-31 02:14:20 UTC
From: w9amr@aol.com
Topic: 1100 Message: 1117

In my last conversation with George it was mentioned he had enough stock
to do a few more kit's.

Sid: Let me know how your project goes!

Larry W9AMR

In a message dated 7/30/2012 8:40:16 A.M. Eastern Daylight Time,
sboyce@... writes:

The site says it's SOLD OUT. George Boudreau has extended availability in
the past depending on a certain threshold of pre-orders due to the cost of
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http://www.yoyodyneconsulting.ca/pages/SDR-Widget.html
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http://www.mobokits.stormwarning.org/widget
(http://www.mobokits.stormwarning.org/widget)
73 ... Sid.

On 30/07/12 07:09, MIKE DURKIN wrote:

How much is SDR-Widget any ways? Which is cheaper?

Mike KC7NOA

_____
To: _UHFSDR@yahoogroups.com_ (mailto:UHFSDR@yahoogroups.com)
From: _sboyce@..._ (mailto:sboyce@...)
Date: Mon, 30 Jul 2012 04:14:04 +0100
Subject: Re: [UHFSDR] UHFSDR connections

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On 30/07/12 01:48, Jim Sanford wrote:
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> the HPSDR Janus/Ozy as the interface, which leads to several questions:
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> PowerSDR-IQ.
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> provided from the PC and receive audio sent to the PC with the result

> that only connection between PC and UHFSDR was the USB cable. How was
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> My interest is in being able to remote UHFSDR about 300 feet away where
> my tower is, and then use it as the IF for my microwave stack.
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1118. Re: [UHFSDR] UHFSDR connections

Yahoo group: UHFSDR
Date: 2012-07-31 12:12:13 UTC
From: Sid Boyce
Topic: 1100 Message: 1118
Attachments: 1 described; binary payloads are missing from this source WARC

OK Larry,
It'll probably a while before I can turn my attention to the second UHFSDR+ Widget.

Last night I hooked up the HiQSDR Presector to the HiQSDR and tuned across a number of bands using QtRadio. It has been up on the net from last night.

I still have some more testing to do before soldering in the BPF screens and drilling holes for the SMA connectors on both ends, 2 on the end not shown in the photo and soldering the BPF/PA enclosure which consists of 2 L shaped sections and top and bottom covers so the whole unit is screened and separate from the HiQSDR.

I've yet to etch a couple of small PCB's for the RF Return Loss Bridge so I can use the unit as a VNA to measure shape and insertion loss of the BPF's.

In this photo the 10W PA (available soon) is installed on the left. I am using the 1W PA that's plugged into the underside. Later due will be the 100W PA and case for the whole transceiver.
73 ... Sid.
.
On 31/07/12 03:14, w9amr@... wrote:
>
> In my last conversation with George it was mentioned he had enough
> stock to do a few more kit's.
> Sid: Let me know how your project goes!
> Larry W9AMR
> In a message dated 7/30/2012 8:40:16 A.M. Eastern Daylight Time,
> sboyce@... writes:
>
> The site says it's SOLD OUT. George Boudreau has extended
> availability in the past depending on a certain threshold of
> pre-orders due to the cost of parts.
> http://www.yoyodyneconsulting.ca/pages/SDR-Widget.html
> Price for a SDR-Widget kit::
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> * Canada/US $160.80CDN 7-14 business days surface mail
> * DX $165.30CDN *6-10 business days AIR MAIL*
>
> http://www.mobokits.stormwarning.org/widget
> 73 ... Sid.
>
> On 30/07/12 07:09, MIKE DURKIN wrote:

>> How much is SDR-Widget any ways? Which is cheaper?
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>> Mike KC7NOA
>>
>> ---
>> To: UHFSDR@yahoogroups.com
>> From: sboyce@...
>> Date: Mon, 30 Jul 2012 04:14:04 +0100
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>> > 3. Has anyone tried extending the length of the USB link by
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1119. Re: [UHFSDR] UHFSDR connections

Yahoo group: UHFSDR
Date: 2012-07-31 19:52:38 UTC
From: Oliver Goldenstein
Topic: 1100 Message: 1119

Hi all !

Larry have your sdr-widget/uhfsdr no running and had a JT65 contact Wirth UA3ARC in 20-Meter already with 100mW and he copied me with -11 :-)

Really nice rig.

I am unsure what to do.

1) Simply connect a amp and 50/144 filters (replacable) or

2) connect a second to build mobo?

Larry would it be possible to run the mobo up to 50/144 with of course custom filters switched by the mobo board?

73 Oliver DL6KBG
Am 31.07.2012 14:16 schrieb "Sid Boyce" <sboyce@...>:

>
>
> OK Larry,
> It'll probably a while before I can turn my attention to the second
> UHFSDR+ Widget.
>
> Last night I hooked up the HiQSDR Presector to the HiQSDR and tuned across
> a number of bands using QtRadio. It has been up on the net from last night.
>
> I still have some more testing to do before soldering in the BPF screens
> and drilling holes for the SMA connectors on both ends, 2 on the end not
> shown in the photo and soldering the BPF/PA enclosure which consists of 2 L
> shaped sections and top and bottom covers so the whole unit is screened and
> separate from the HiQSDR.
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> I've yet to etch a couple of small PCB's for the RF Return Loss Bridge so
> I can use the unit as a VNA to measure shape and insertion loss of the
> BPF's.
>
> In this photo the 10W PA (available soon) is installed on the left. I am
> using the 1W PA that's plugged into the underside. Later due will be the
> 100W PA and case for the whole transceiver.
> 73 ... Sid.
> .
> On 31/07/12 03:14, w9amr@... wrote:
>
>
>

> In my last conversation with George it was mentioned he had enough stock
> to do a few more kit's.
>
> Sid: Let me know how your project goes!
>
> Larry W9AMR
>
> In a message dated 7/30/2012 8:40:16 A.M. Eastern Daylight Time,
> sboyce@... writes:
>
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> The site says it's SOLD OUT. George Boudreau has extended availability
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> http://www.yoyodyneconsulting.ca/pages/SDR-Widget.html
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> http://www.mobokits.stormwarning.org/widget
> 73 ... Sid.
>
> On 30/07/12 07:09, MIKE DURKIN wrote:
>
>
> How much is SDR-Widget any ways? Which is cheaper?
>
> Mike KC7NOA
>
> ----------
> To: UHFSDR@yahoogroups.com
> From: sboyce@...
> Date: Mon, 30 Jul 2012 04:14:04 +0100
> Subject: Re: [UHFSDR] UHFSDR connections
>
>
> I can supply one answer, to question 2, the USB2SDR or SDR-Widget is
> used.
> 73 ... Sid.
>
> On 30/07/12 01:48, Jim Sanford wrote:
> > All:
> >
> > I am getting close to attempting to hook up my UHFSDR. I'd like to use
> > the HPSDR Janus/Ozy as the interface, which leads to several questions:
> > 1. Has anyone done this already? If so, what were connections between
> > HPSDR boards and UHFSDR, and what were configuration settings in
> > PowerSDR-IQ.

> > 2 I saw a note recently which suggested that transmit audio could be
> > provided from the PC and receive audio sent to the PC with the result
> > that only connection between PC and UHFSDR was the USB cable. How was
> > this achieved?
> > 3. Has anyone tried extending the length of the USB link by using the
> > available USB-to-Ethernet and Ethernet-to-USB boxes? How did this work
> out?
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> > My interest is in being able to remote UHFSDR about 300 feet away where
> > my tower is, and then use it as the IF for my microwave stack.
> >
> > Thanks & 73,
> > Jim
> > wb4gcs@...
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
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>
> --
> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
> Senior Staff Specialist, Cricket Coach
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1120. Re: [UHFSDR] UHFSDR connections

Yahoo group: UHFSDR
Date: 2012-07-31 22:33:18 UTC
From: Kostas Ioannidis
Topic: 1100 Message: 1120

Hi,

Just popping in to say my opinion.
I went for the USB2SDR.
Got really interested from Eric KC5YOE work in
http://ntms.org/files/KC4YOE_UHFSDR-USB2SDR.pdf
because I'm active in VHF/UHF and higher bands up to microwaves too.

I wanted easy setup and operation with PowerSDR and it proved really good.
Regarding price, USB2SDR has double codecs so it contains
two stereo inputs and two stereo outputs to hook appart from rig's IQ,
my mic and my headphones (the way PowerSDR wants it in supported modes)
at 192KHz, factory made.
So it payed up by saving me from having a second audio card or any
setup trouble.
Of course I'm very happy with the result which you can see at
http://groups.yahoo.com/group/UHFSDR/files/SV1IXP/

UHFSDR + USB2SDR + BPF/LPF + 100WPA HF/VHF/UHF

On Tue, Jul 31, 2012 at 10:52 PM, Oliver Goldenstein <
oliver.goldenstein@...> wrote:

> **
>
>
> Hi all !
>
> Larry have your sdr-widget/uhfsdr no running and had a JT65 contact Wirth
> UA3ARC in 20-Meter already with 100mW and he copied me with -11 :-)
>
> Really nice rig.
>
> I am unsure what to do.
>
> 1) Simply connect a amp and 50/144 filters (replacable) or
>
> 2) connect a second to build mobo?
>
> Larry would it be possible to run the mobo up to 50/144 with of course
> custom filters switched by the mobo board?
>
> 73 Oliver DL6KBG
> Am 31.07.2012 14:16 schrieb "Sid Boyce" <sboyce@...>:
>

>
>>
>> OK Larry,
>> It'll probably a while before I can turn my attention to the second
>> UHFSDR+ Widget.
>>
>> Last night I hooked up the HiQSDR Presector to the HiQSDR and tuned
>> across a number of bands using QtRadio. It has been up on the net from last
>> night.
>>
>> I still have some more testing to do before soldering in the BPF screens
>> and drilling holes for the SMA connectors on both ends, 2 on the end not
>> shown in the photo and soldering the BPF/PA enclosure which consists of 2 L
>> shaped sections and top and bottom covers so the whole unit is screened and
>> separate from the HiQSDR.
>>
>> I've yet to etch a couple of small PCB's for the RF Return Loss Bridge so
>> I can use the unit as a VNA to measure shape and insertion loss of the
>> BPF's.
>>
>> In this photo the 10W PA (available soon) is installed on the left. I am
>> using the 1W PA that's plugged into the underside. Later due will be the
>> 100W PA and case for the whole transceiver.
>> 73 ... Sid.
>> .
>> On 31/07/12 03:14, w9amr@... wrote:
>>
>>
>>
>> In my last conversation with George it was mentioned he had enough
>> stock to do a few more kit's.
>>
>> Sid: Let me know how your project goes!
>>
>> Larry W9AMR
>>
>> In a message dated 7/30/2012 8:40:16 A.M. Eastern Daylight Time,
>> sboyce@... writes:
>>
>>
>>
>> The site says it's SOLD OUT. George Boudreau has extended availability
>> in the past depending on a certain threshold of pre-orders due to the cost
>> of parts.
>> http://www.yoyodyneconsulting.ca/pages/SDR-Widget.html
>> Price for a SDR-Widget kit::
>>
>> - Canada/US $160.80CDN 7-14 business days surface mail
>> - DX $165.30CDN *6-10 business days AIR MAIL*
>>

>> http://www.mobokits.stormwarning.org/widget
>> 73 ... Sid.
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>> On 30/07/12 07:09, MIKE DURKIN wrote:
>>
>>
>> How much is SDR-Widget any ways? Which is cheaper?
>>
>> Mike KC7NOA
>>
>> ----------
>> To: UHFSDR@yahoogroups.com
>> From: sboyce@...
>> Date: Mon, 30 Jul 2012 04:14:04 +0100
>> Subject: Re: [UHFSDR] UHFSDR connections
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>>
>> I can supply one answer, to question 2, the USB2SDR or SDR-Widget is
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>
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1121. SV: [UHFSDR] UHFSDR connections

Yahoo group: UHFSDR
Date: 2012-07-31 23:17:04 UTC
From: Flemming Nielsen
Topic: 1121 Message: 1121

Hi Oliver.

About mobo and UHf-sdr ! For about 1½ year ago I made some tests with the mobo and uhf-sdr . It`s works fine on hf and 6m and 4m but on 144Mhz there was a problem with the 16Mhz x-tal osc on the mobo , frekvens 9*16,003 = 144,027 noisy :-(  . Maybe It`s better with the widget . The widget , do have 2 clocks 12,2Mhz and 12 Mhz . 12,00? Mhz = 12x12 = 144Mhz and I` m afraid that you also will have a rest of harmonic there . If your are making som tests , It could bee interresting to hear your conclusion. You can better make a isolation between the mobo and widget .

73 vy oz5agk / Flemming

Ps. you need more gain before the mobo because the switches. eks . http://www.g4ddk.com/SPFAMP.pdf I have build 2 of them and the works very fine.
(for use in my 4 bands transverter)

Fra: Oliver Goldenstein <oliver.goldenstein@gmail.com>
Til: UHFSDR@yahoogroups.com
Sendt: 21:52 tirsdag den 31. juli 2012
Emne: Re: [UHFSDR] UHFSDR connections

Hi all !
Larry have your sdr-widget/uhfsdr no running and had a JT65 contact Wirth UA3ARC in 20-Meter already with 100mW and he copied me with -11 :-)
Really nice rig.
I am unsure what to do.
1) Simply connect a amp and 50/144 filters (replacable) or
2) connect a second to build mobo?
Larry would it be possible to run the mobo up to 50/144 with of course custom filters switched by the mobo board?

73 Oliver DL6KBG

Am 31.07.2012 14:16 schrieb "Sid Boyce" <sboyce@blueyonder.co.uk>:

>
>
>OK Larry,
>It'll probably a while before I can turn my attention to the second UHFSDR+ Widget.
>
>Last night I hooked up the HiQSDR Presector to the HiQSDR and tuned across a number of bands using QtRadio. It has been up on the net from last night.
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>I still have some more testing to do before soldering in the BPF screens and drilling holes for the SMA connectors on both ends, 2 on the end not shown in the photo and soldering the BPF/PA enclosure which consists of 2 L shaped sections and top and bottom

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>I've yet to etch a couple of small PCB's for the RF Return Loss Bridge so I can use the unit as a VNA to measure shape and insertion loss of the BPF's.
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>In this photo the 10W PA (available soon) is installed on the left. I am using the 1W PA that's plugged into the underside. Later due will be the 100W PA and case for the whole transceiver.
>73 ... Sid.
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>On 31/07/12 03:14, w9amr@... wrote:
>
>
>>In my last conversation with George it was mentioned he had enough stock to do a few more kit's.
>>
>>Sid: Let me know how your project goes!
>>
>>Larry W9AMR
>>
>>In a message dated 7/30/2012 8:40:16 A.M. Eastern Daylight Time, sboyce@... writes:
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>>>The site says it's SOLD OUT. George Boudreau has extended availability in the past depending on a certain threshold of pre-orders due to the cost of parts.
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>>> * Canada/US $160.80CDN 7-14 business days surface mail
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>>>>How much is SDR-Widget any ways? Which is cheaper?
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>>>>Mike KC7NOA
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>>>>>>>>>_____
>>>>To: UHFSDR@...m
>>>>From: sboyce@...
>>>>Date: Mon, 30 Jul 2012 04:14:04 +0100
>>>>Subject: Re: [UHFSDR] UHFSDR connections
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>>>>> My interest is in being able to remote UHFSDR about 300 feet away where
>>>>> my tower is, and then use it as the IF for my microwave stack.
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>>>>> Thanks & 73,
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>>>>> mailto:wb4gcs%40amsat.org
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>>
>>

1122. Re: [UHFSDR] UHFSDR connections

Yahoo group: UHFSDR
Date: 2012-08-01 04:54:29 UTC
From: w9amr@aol.com
Topic: 1100 Message: 1122

Hi Oliver

I am glad to hear it's all running well. I have tinkered with the Mobo a little at 6m. output is a little low but useable. For 2 meters I the UHFSDR in to a 2m PA module with great luck! I have some that are from a hand held walkie talkie. The ones I have run at 7.5v's. There are all kinds of power modules. Some that require as little as 1mw drive.

At the moment the widget seems to hit a brick wall around 365Mhz. I believe it will take a firmware change to resolve that. Beyond my abilities. I have not tinkered with my MOBO/UHFSDR setup in a while. I have a few more ideals to tinker with when I have time. I think the mobo is going to be usable to 6m with a little work.

Using switching to bypass mobo 50Mhz and above and PA modules at 144,220 and 440 might work. The PCF8574 will handle the switching crossover point up to 144Mhz. I don't think the board layout and design of the Mobo will efficiently handle Vhf above 54Mhz. I could be wrong but I haven't (yet) pushed it that far.

73

Larry W9AMR

In a message dated 7/31/2012 3:52:53 P.M. Eastern Daylight Time, oliver.goldenstein@... writes:

Hi all !
Larry have your sdr-widget/uhfsdr no running and had a JT65 contact Wirth UA3ARC in 20-Meter already with 100mW and he copied me with -11 :-)
Really nice rig.
I am unsure what to do.
1) Simply connect a amp and 50/144 filters (replacable) or
2) connect a second to build mobo?
Larry would it be possible to run the mobo up to 50/144 with of course custom filters switched by the mobo board?
73 Oliver DL6KBG
Am 31.07.2012 14:16 schrieb "Sid Boyce" <_sboyce@blueyonder.co.uk_ (mailto:sboyce@...) >:

OK Larry,
It'll probably a while before I can turn my attention to the second UHFSDR+ Widget.

Last night I hooked up the HiQSDR Presector to the HiQSDR and tuned across a number of bands using QtRadio. It has been up on the net from last night.

I still have some more testing to do before soldering in the BPF screens and drilling holes for the SMA connectors on both ends, 2 on the end not shown in the photo and soldering the BPF/PA enclosure which consists of 2 L shaped sections and top and bottom covers so the whole unit is screened and separate from the HiQSDR.

I've yet to etch a couple of small PCB's for the RF Return Loss Bridge so I can use the unit as a VNA to measure shape and insertion loss of the BPF's.

In this photo the 10W PA (available soon) is installed on the left. I am using the 1W PA that's plugged into the underside. Later due will be the 100W PA and case for the whole transceiver.
73 ... Sid.
.
On 31/07/12 03:14, _w9amr@..._ (mailto:w9amr@...) wrote:

In my last conversation with George it was mentioned he had enough stock to do a few more kit's.

Sid: Let me know how your project goes!

Larry W9AMR

In a message dated 7/30/2012 8:40:16 A.M. Eastern Daylight Time, _sboyce@..._ (mailto:sboyce@blueyonder.co.uk) writes:

The site says it's SOLD OUT. George Boudreau has extended availability in t he past depending on a certain threshold of pre-orders due to the cost of parts.
http://www.yoyodyneconsulting.ca/pages/SDR-Widget.html
(http://www.yoyodyneconsulting.ca/pages/SDR-Widget.html)
Price for a SDR-Widget kit::
* Canada/US $160.80CDN 7-14 business days surface mail
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http://www.mobokits.stormwarning.org/widget
(http://www.mobokits.stormwarning.org/widget)
73 ... Sid.

On 30/07/12 07:09, MIKE DURKIN wrote:

How much is SDR-Widget any ways? Which is cheaper?

Mike KC7NOA

_____
To: _UHFSDR@yahoogroups.com_ (mailto:UHFSDR@yahoogroups.com)
From: _sboyce@..._ (mailto:sboyce@blueyonder.co.uk)
Date: Mon, 30 Jul 2012 04:14:04 +0100
Subject: Re: [UHFSDR] UHFSDR connections

I can supply one answer, to question 2, the USB2SDR or SDR-Widget is used.
73 ... Sid.

On 30/07/12 01:48, Jim Sanford wrote:
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1123. Re: [UHFSDR] UHFSDR connections

Yahoo group: UHFSDR
Date: 2012-08-01 16:46:50 UTC
From: Oliver Goldenstein
Topic: 1100 Message: 1123

Man thanks Flemming, Costas and Larry for you helpful tips. Only thing i can say so far is that i do not want to miss the mobo extra functions.

maybe i will come up with something in the middle, with at least 50 MHz

73 Oliver
Am 01.08.2012 06:54 schrieb <w9amr@...>:

> **
>
>
> Hi Oliver
>
> I am glad to hear it's all running well. I have tinkered with the Mobo a
> little at 6m. output is a little low but useable. For 2 meters I the UHFSDR
> in to a 2m PA module with great luck! I have some that are from a hand held
> walkie talkie. The ones I have run at 7.5v's. There are all kinds of power
> modules. Some that require as little as 1mw drive.
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> abilities. I have not tinkered with my MOBO/UHFSDR setup in a while. I have
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> Using switching to bypass mobo 50Mhz and above and PA modules at 144,220
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> the Mobo will efficiently handle Vhf above 54Mhz. I could be wrong but I
> haven't (yet) pushed it that far.
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> Larry W9AMR
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> In a message dated 7/31/2012 3:52:53 P.M. Eastern Daylight Time,
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>

1124. WB6DHW Band Pass Filter Board

Yahoo group: UHFSDR
Date: 2012-08-08 08:15:22 UTC
From: John
Topic: 1100 Message: 1124

Is anyone doing a kit of L's and C's for the BPF board?

John G3UGY

1125. Re: [UHFSDR] WB6DHW Band Pass Filter Board

Yahoo group: UHFSDR
Date: 2012-08-08 08:27:06 UTC
From: Dave
Topic: 1100 Message: 1125

John:
Not that I know of. I have a multi-sourceBOM as well as a DigiKey
BOM formatted for uploading to Digikey at
<http://wb6dhw.com/BPF.html>

Dave - WB6DHW
<http://wb6dhw.com>

On 8/8/2012 1:15 AM, John wrote:
>
> Is anyone doing a kit of L's and C's for the BPF board?
> John G3UGY
>

1126. Re: [UHFSDR] WB6DHW Band Pass Filter Board

Yahoo group: UHFSDR
Date: 2012-08-08 13:18:44 UTC
From: Kees & Sandy
Topic: 1100 Message: 1126
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1128. Re: WB6DHW Band Pass Filter Board

Yahoo group: UHFSDR
Date: 2012-08-08 13:49:20 UTC
From: v321uk
Topic: 1100 Message: 1128

In quantity per piece they are pennies but distributors sell in packs of 25, 100 or 250 some don't do COG / NP0 on the higher values.

Surplus places I've looked at don't have all the needed values.

You really only need the capacitors. You can wind the inductors on miniature T20-6 and FT23-61 cores and probably get higher Q than using SMD inductors.

These are the needed capacitor values and quantities for a six range band pass filter for 1.8 to 30 MHz

0.0047 270 0.0018 0.0068 820 0.0027 0.0024 0.0033 150 0.001 0.0039 510 0.0015
2 1 1 1 1 1 2 3 1 3 1 2 2

110 560 330 0.0012 56 390 220 680 750 39 120 24 120 68
1 1 1 2 1 3 3 1 1 1 2 1 2 1

John G3UGY

--- In UHFSDR@yahoogroups.com, "Kees & Sandy" <windy10605@...> wrote:
>
> It is a nice little board, useful on many SDR frontends. Any idea roughly what the parts cost is ? Might be a good opportunity for someone to jump in and provide kits.....maybe for more than 6 bands and you select the bands you want to use or use multiple boards. 73 Kees K5BCQ
>
> ---------- Original Message ----------
> From: Dave <dave@...>
> To: UHFSDR@yahoogroups.com
> Subject: Re: [UHFSDR] WB6DHW Band Pass Filter Board
> Date: Wed, 08 Aug 2012 01:27:06 -0700
>
>
> <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">
> John:
> Not that I know of. I have a multi-sourceBOM as well as a DigiKey BOM formatted for uploading to Digikey at
> <http://wb6dhw.com/BPF.html>
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 8/8/2012 1:15 AM, John wrote:
> Is anyone doing a kit of L's and C's for the BPF board? John G3UGY
>

1129. Re: WB6DHW Band Pass Filter Board

Yahoo group: UHFSDR
Date: 2012-08-08 13:52:31 UTC
From: v321uk
Topic: 1100 Message: 1129

Sorry the formatting on the SMD capacitor list didn't work - looked fine in draft

John G3UGY

--- In UHFSDR@yahoogroups.com, "v321uk" <v321uk@...> wrote:
>
>
>
>
> In quantity per piece they are pennies but distributors sell in packs of 25, 100 or 250 some don't do COG / NP0 on the higher values.
>
> Surplus places I've looked at don't have all the needed values.
>
> You really only need the capacitors. You can wind the inductors on miniature T20-6 and FT23-61 cores and probably get higher Q than using SMD inductors.
>
> These are the needed capacitor values and quantities for a six range band pass filter for 1.8 to 30 MHz
>
> 0.0047 270 0.0018 0.0068 820 0.0027 0.0024 0.0033 150 0.001 0.0039 510 0.0015
> 2 1 1 1 1 1 2 3 1 3 1 2 2
>
> 110 560 330 0.0012 56 390 220 680 750 39 120 24 120 68
> 1 1 1 2 1 3 3 1 1 1 2 1 2 1
>
>
> John G3UGY
>
>
> --- In UHFSDR@yahoogroups.com, "Kees & Sandy" <windy10605@> wrote:
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> >
> > ---------- Original Message ----------
> > From: Dave <dave@>
> > To: UHFSDR@yahoogroups.com
> > Subject: Re: [UHFSDR] WB6DHW Band Pass Filter Board
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> >
> > On 8/8/2012 1:15 AM, John wrote:
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> >
>

1130. Re: [UHFSDR] WB6DHW Band Pass Filter Board

Yahoo group: UHFSDR
Date: 2012-08-08 14:12:32 UTC
From: John
Topic: 1100 Message: 1130

SMD Capacitors

2 x 0.0047
1 x 270
1 x 0.0018
1 x 0.0068
1 x 820
1 x 0.0027
2 x 0.0024
3 x 0.0033
1 x 150
3 x 0.001
1 x 0.0039
2 x 510
2 x 0.0015
1 x 110
1 x 560
1 x 330
2 x 0.0012
1 x 56
3 x 390
3 x 220
1 x 680
1 x 750
1 x 39
2 x 120
1 x 24
2 x 120
1 x 68

John G3UGY

From: Kees & Sandy
Sent: Wednesday, August 08, 2012 2:18 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] WB6DHW Band Pass Filter Board

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73 Kees K5BCQ

---------- Original Message ----------
From: Dave <dave@wb6dhw.com>
To: UHFSDR@yahoogroups.com

Subject: Re: [UHFSDR] WB6DHW Band Pass Filter Board
Date: Wed, 08 Aug 2012 01:27:06 -0700

John:
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Dave - WB6DHW
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On 8/8/2012 1:15 AM, John wrote:

Is anyone doing a kit of L's and C's for the BPF board?

John G3UGY

1131. Re: [UHFSDR] WB6DHW Band Pass Filter Board

Yahoo group: UHFSDR
Date: 2012-08-08 14:29:47 UTC
From: Alan Hill
Topic: 1100 Message: 1131

The mobokit has many options for differing filter choices.

73,
ALAN - W6ARH

Http://mobokits.stormwarning.org
On Aug 8, 2012 1:15 AM, "John" <v321uk@...> wrote:

> **
>
>
> **
> Is anyone doing a kit of L's and C's for the BPF board?
>
> John G3UGY
>
>

1132. Mitsubishi Mosfet Power Modules

Yahoo group: UHFSDR
Date: 2012-08-08 17:51:29 UTC
From: Oliver Goldenstein
Topic: 1132 Message: 1132

Hi All !

Inspired by Kostas 2 Meter and 70 cm Module i looked around for circuits for the Mitsubishi Power Modules.

I have a RA08H1317 8 Watt Power module for round about 26 Euro.

http://www.box73.de/download/bauelemente/RA08H1317M.pdf

The Datasheet says:

"This module is designed for non-linear FM modulation, but may also be used for linear modulation by setting the drain quiescent current with the gate voltage and controlling the output power with the input power."

...

"b) Linear AM modulation:
By RF input power Pin.
The gate voltage is used to set the drain’s quiescent current for the required linearity.
"

1) http://www.minikits.com.au/kits7.html#ra08h1317m

looks like non linear

2) http://www.byonics.com/ma3

non linear for aprs fm but has a interesting power sensing circuit

3) http://www.hamtv.com/pdffiles/PA5-20m.pdf

described as ... "Build a 50mw in / 25 Watts p.e.p. out, linear all mode amp and drive from ..."

4) http://site.hfprojectsyahoo.com/vhf_packer_6m_amp

6-Meter VHF Packer amp. Circuit looks like non linear, but description says:

"*MITSUBISHI RF MOSFET MODULE *mounted on a heat sink. The RA30H0608M is a 30-watt RF MOSFET Amplifier Module for 12.5-volt mobile radios that operate in the 66- to 88-MHz range. SSB, CW and FM Operation. Also works well at 50MHz."

So it looks easy to hook up a PA with such power modules. But i want it to use with SSB and CW on 50 MHz / 144 MHz / 440 MHz. And i am i but confused now.

Maybe i am a bit wrong in understanding linear and non-linear mode.

Do some of you have experiences using one of this modules?

Kosta could you give some more details of your used circuit? i thought one of your first qso's was on 2 Meter SSB?

Any tips and suggestions welcome.

73 Oliver DL6KBG

1133. RE: [UHFSDR] Mitsubishi Mosfet Power Modules

Yahoo group: UHFSDR
Date: 2012-08-08 18:24:31 UTC
From: MIKE DURKIN
Topic: 1132 Message: 1133

I think we should try to talk Kees into doing a stripline amp with RD06VHF & RD16VHF

To: UHFSDR@yahoogroups.com
From: oliver.goldenstein@...
Date: Wed, 8 Aug 2012 17:51:29 +0000
Subject: [UHFSDR] Mitsubishi Mosfet Power Modules

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with the input power."

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Any tips and suggestions welcome.

73 Oliver DL6KBG

1134. Re: [UHFSDR] Mitsubishi Mosfet Power Modules

Yahoo group: UHFSDR
Date: 2012-08-08 18:34:54 UTC
From: Oliver Goldenstein
Topic: 1132 Message: 1134

OK...found some more following this blog from a softrock friend :-)

http://www.k8gu.com/?p=1027

he cloned the circuit from the elecraft xv series.

http://www.elecraft.com/XV/XV.htm

manual with circuit is here:

http://www.elecraft.com/manual/XV%20Transverter%20Owner%27s%20Manual%20Rev%20F.pdf

i think i will try one of these first.

73 Oliver

On 8 August 2012 18:24, MIKE DURKIN <Patriot121@...> wrote:

>
>
> I think we should try to talk Kees into doing a stripline amp with RD06VHF
> & RD16VHF
>
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> To: UHFSDR@yahoogroups.com
> From: oliver.goldenstein@...
> Date: Wed, 8 Aug 2012 17:51:29 +0000
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>
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>
>
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>
> looks like non linear
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> non linear for aprs fm but has a interesting power sensing circuit
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> of your first qso's was on 2 Meter SSB?
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> Any tips and suggestions welcome.
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>
> 73 Oliver DL6KBG
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>
>
>

>

1135. Re: [UHFSDR] WB6DHW Band Pass Filter Board

Yahoo group: UHFSDR
Date: 2012-08-08 21:06:10 UTC
From: jeff@123jeff.com
Topic: 1100 Message: 1135

I have been playing a bit with the factory-rolled inductors vs the hand-rolled toroid equivalents. IMHO, Coilcraft makes about the best of the lot for these SMD type coils. However, the Q and R-equiv for these gems just doesn't stack up to well wound toroids. No news there for anyone, I'm sure.

Also, most of the SMD coils are solenoid form factor. This leads to both coil coupling and Q-killing from nearby conductors over larger distances than might be expected.

By using pre-made inductors a mighty annoying part of filter making (toroid winding) can be avoided. However, be ready for higher filter insertion losses and, perhaps, odd skirt profiles. A bit of hand-diddling may improve the picture a lot.

So in that regard, also buy a cheep assortment of SMD 0804 size ceramic chip capacitors on ebay for handy tuning & tweaking. For about $50 you can get a lifetime supply of small caps in the 2.2pf thru 0.1mf range. Also purchase AT LEAST an AADE LC Meter-2B meter for good measurements! (You needed one anyway, right?). Caps have pretty sloppy precision specs - enough to really clobber a nice, tight filter design.

AADE also has a pretty good filter design tool on their site that certainly merits your attention if you're going to play with this stuff. It's quite good and it's free as well. Pretty impressive. See it at:

www.aade.com

...just a very satisfied user.

My $.02 worth of opinion...

Jeff Thompson, W3HVU

It is a nice little board, useful on many SDR frontends. Any idea roughly what the parts cost is ? Might be a good opportunity for someone to jump in and provide kits.....maybe for more than 6 bands and you select the bands you want to use or use multiple boards. 73
Kees K5BCQ

---------- Original Message ----------
From: Dave <dave@...>
To: UHFSDR@yahoogroups.com

Subject: Re: [UHFSDR] WB6DHW Band Pass Filter Board
Date: Wed, 08 Aug 2012 01:27:06 -0700

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Dave - WB6DHW
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On 8/8/2012 1:15 AM, John wrote:
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1136. Re: [UHFSDR] WB6DHW Band Pass Filter Board

Yahoo group: UHFSDR
Date: 2012-08-08 22:26:35 UTC
From: Kees & Sandy
Topic: 1100 Message: 1136
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1137. RE: [UHFSDR] WB6DHW Band Pass Filter Board

Yahoo group: UHFSDR
Date: 2012-08-08 22:49:53 UTC
From: MIKE DURKIN
Topic: 1100 Message: 1137

I have one with SMD ....

Still want to do one with toroids ..... just cost more than I thought it should .... so far iv not found cheap toroids to use.

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: windy10605@...
Date: Wed, 8 Aug 2012 22:26:35 +0000
Subject: Re: [UHFSDR] WB6DHW Band Pass Filter Board

I notice there is a R1 version of the BPF board David has with holes in the pads for toroids and a non R1 version without the holes. Which one are you shipping David ? Does anyone have a picture of one with small toroids ? Really seems like a useful layout without any extra parts I wouldn't be using anyway.....maybe add a low NF switcheable MMIC and make it 80m-6m. 73 Kees K5BCQ

---------- Original Message ----------
From: jeff@...
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] WB6DHW Band Pass Filter Board
Date: Wed, 08 Aug 2012 16:06:10 -0500

I have been playing a bit with the factory-rolled inductors vs the hand-rolled toroid equivalents. IMHO, Coilcraft makes about the best of the lot for these SMD type coils. However, the Q and R-equiv for these gems just doesn't stack up to well wound toroids. No news there for anyone, I'm sure.

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Dave - WB6DHW
<http://wb6dhw.com>

On 8/8/2012 1:15 AM, John wrote:
Is anyone doing a kit of L's and C's for the BPF board? John G3UGY

1138. Re: [UHFSDR] WB6DHW Band Pass Filter Board

Yahoo group: UHFSDR
Date: 2012-08-08 23:10:23 UTC
From: Charles Nolin
Topic: 1100 Message: 1138

Hi Kees,

I have both of the boards you are asking about. There are a few different docs of that filter
that have been optimize and use different parts than those listed. Some of the docs are about @5 pages long. Alot of time was spent on squeezing the max performance out of it.

Chuck Nolin
WA6LTV/4

From: Kees & Sandy <windy10605@...>
To: UHFSDR@yahoogroups.com
Sent: Wednesday, August 8, 2012 6:26 PM
Subject: Re: [UHFSDR] WB6DHW Band Pass Filter Board

I notice there is a R1 version of the BPF board David has with holes in the pads for toroids and a non R1 version without the holes. Which one are you shipping David ? Does anyone have a picture of one with small toroids ? Really seems like a useful layout without any extra parts I wouldn't be using anyway.....maybe add a low NF switcheable MMIC and make it 80m-6m.

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To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] WB6DHW Band Pass Filter Board
Date: Wed, 08 Aug 2012 16:06:10 -0500

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1139. RE: [UHFSDR] WB6DHW Band Pass Filter Board

Yahoo group: UHFSDR
Date: 2012-08-09 00:02:04 UTC
From: Kees & Sandy
Topic: 1100 Message: 1139
Attachments: 2 described; binary payloads are missing from this source WARC

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1140. RE: [UHFSDR] WB6DHW Band Pass Filter Board

Yahoo group: UHFSDR
Date: 2012-08-09 00:23:41 UTC
From: MIKE DURKIN
Topic: 1100 Message: 1140

I installed a 75ohm 1:1 off if ebay ...4$ if I remember,

To: UHFSDR@yahoogroups.com
From: windy10605@...
Date: Thu, 9 Aug 2012 00:02:04 +0000
Subject: RE: [UHFSDR] WB6DHW Band Pass Filter Board

I figure T25-2 and T25-6 toroids are around $0.12 each so that's not too bad, bulk buying 1:1 transformers ought to be $1 each, the FET switches you need to find and the NPO/COG caps. 73 Kees K5BCQ

---------- Original Message ----------
From: MIKE DURKIN <Patriot121@msn.com>
To: <uhfsdr@yahoogroups.com>
Subject: RE: [UHFSDR] WB6DHW Band Pass Filter Board
Date: Wed, 8 Aug 2012 15:49:53 -0700

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Subject: Re: [UHFSDR] WB6DHW Band Pass Filter Board
Date: Wed, 08 Aug 2012 01:27:06 -0700

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN"
"http://www.w3.org/TR/html4/strict.dtd">
John:
Not that I know of. I have a multi-sourceBOM as well as a
DigiKey BOM formatted for uploading to Digikey at
<http://wb6dhw.com/BPF.html>

Dave - WB6DHW
<http://wb6dhw.com>

On 8/8/2012 1:15 AM, John wrote:
Is anyone doing a kit of L's and C's for the BPF board? John G3UGY

1141. Re: [UHFSDR] WB6DHW Band Pass Filter Board

Yahoo group: UHFSDR
Date: 2012-08-09 00:39:57 UTC
From: Dave
Topic: 1100 Message: 1141

Kees:
I am shipping the R1 version with the holes for toroid leads. Just
got 100 of them.
The BPF boards with the smd inductors have 5 to 6 dB in band loss.
Skirts are good. Loss using the toroids is 2 to 3 dB less due to the
higher Q.

Dave - WB6DHW
<http://wb6dhw.com>

On 8/8/2012 3:26 PM, Kees & Sandy wrote:
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> switcheable MMIC and make it 80m-6m.
> 73 Kees K5BCQ
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>
> ---------- Original Message ----------
> From: jeff@...
> To: UHFSDR@yahoogroups.com
> Subject: Re: [UHFSDR] WB6DHW Band Pass Filter Board
> Date: Wed, 08 Aug 2012 16:06:10 -0500
>
> I have been playing a bit with the factory-rolled inductors vs the
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> hand-diddling may improve the picture a lot.
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> So in that regard, also buy a cheep assortment of SMD 0804 size
> ceramic chip capacitors on ebay for handy tuning & tweaking. For
> about $50 you can get a lifetime supply of small caps in the 2.2pf
> thru 0.1mf range. Also purchase AT LEAST an AADE LC Meter-2B meter

> for good measurements! (You needed one anyway, right?). Caps have
> pretty sloppy precision specs - enough to really clobber a nice, tight
> filter design.
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> AADE also has a pretty good filter design tool on their site that
> certainly merits your attention if you're going to play with this
> stuff. It's quite good and it's free as well. Pretty impressive.
> See it at:
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> www.aade.com
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> ...just a very satisfied user.
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> My $.02 worth of opinion...
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> Jeff Thompson, W3HVU
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> From: Dave <dave@... <mailto:dave%40wb6dhw.com>>
> To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> Subject: Re: [UHFSDR] WB6DHW Band Pass Filter Board
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> On 8/8/2012 1:15 AM, John wrote:
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1142. Re: [UHFSDR] WB6DHW Band Pass Filter Board

Yahoo group: UHFSDR
Date: 2012-08-09 00:49:23 UTC
From: Dave
Topic: 1100 Message: 1142

Mike:
<http://www.kitsandparts.com> has the best price I know of for small
to medium quantities.

Dave - WB6DHW
<http://wb6dhw.com>

On 8/8/2012 3:49 PM, MIKE DURKIN wrote:
>
> I have one with SMD ....
>
> Still want to do one with toroids ..... just cost more than I thought
> it should .... so far iv not found cheap toroids to use.
>
> Mike KC7NOA
>
> ---
> To: UHFSDR@yahoogroups.com
> From: windy10605@...
> Date: Wed, 8 Aug 2012 22:26:35 +0000
> Subject: Re: [UHFSDR] WB6DHW Band Pass Filter Board
>
> I notice there is a R1 version of the BPF board David has with holes
> in the pads for toroids and a non R1 version without the holes. Which
> one are you shipping David ? Does anyone have a picture of one with
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> From: Dave <dave@... <mailto:dave%40wb6dhw.com>>
> To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> Subject: Re: [UHFSDR] WB6DHW Band Pass Filter Board
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1143. RE: [UHFSDR] WB6DHW Band Pass Filter Board

Yahoo group: UHFSDR
Date: 2012-08-09 01:17:16 UTC
From: MIKE DURKIN
Topic: 1100 Message: 1143

I can't remember if that included the loss of the multi switch...

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Wed, 8 Aug 2012 17:39:57 -0700
Subject: Re: [UHFSDR] WB6DHW Band Pass Filter Board

Kees:

I am shipping the R1 version with the holes for toroid leads.
Just got 100 of them.

The BPF boards with the smd inductors have 5 to 6 dB in band
loss. Skirts are good. Loss using the toroids is 2 to 3 dB less
due to the higher Q.

Dave - WB6DHW

<http://wb6dhw.com>

On 8/8/2012 3:26 PM, Kees & Sandy wrote:

I notice there is a R1 version of the BPF board David
has with holes in the pads for toroids and a non R1
version without the holes. Which one are you shipping
David ? Does anyone have a picture of one with small
toroids ? Really seems like a useful layout without any
extra parts I wouldn't be using anyway.....maybe add a low
NF switcheable MMIC and make it 80m-6m.

73 Kees K5BCQ

---------- Original Message ----------

From: jeff@...

To: UHFSDR@yahoogroups.com

Subject: Re: [UHFSDR] WB6DHW Band Pass Filter Board

Date: Wed, 08 Aug 2012 16:06:10 -0500

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inductors vs the

hand-rolled toroid equivalents. IMHO, Coilcraft makes
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My $.02 worth of opinion...

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Kees K5BCQ

---------- Original Message ----------

From: Dave <dave@...>

To: UHFSDR@yahoogroups.com

Subject: Re: [UHFSDR] WB6DHW Band Pass Filter Board

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John:

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Dave - WB6DHW

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On 8/8/2012 1:15 AM, John wrote:

Is anyone doing a kit of L's and C's for the BPF
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1144. Re: [UHFSDR] WB6DHW Band Pass Filter Board

Yahoo group: UHFSDR
Date: 2012-08-09 01:15:34 UTC
From: Kees & Sandy
Topic: 1100 Message: 1144
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1145. Re: [UHFSDR] WB6DHW Band Pass Filter Board

Yahoo group: UHFSDR
Date: 2012-08-09 01:29:29 UTC
From: Dave
Topic: 1100 Message: 1145

Kees:
The complete list of parts except the transformer from DigiKey is $25.17.

Dave - WB6DHW
<http://wb6dhw.com>

On 8/8/2012 6:18 AM, Kees & Sandy wrote:
> It is a nice little board, useful on many SDR frontends. Any idea
> roughly what the parts cost is ? Might be a good opportunity for
> someone to jump in and provide kits.....maybe for more than 6 bands
> and you select the bands you want to use or use multiple boards.
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> From: Dave <dave@...>
> To: UHFSDR@yahoogroups.com
> Subject: Re: [UHFSDR] WB6DHW Band Pass Filter Board
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> John:
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> On 8/8/2012 1:15 AM, John wrote:
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1146. Re: [UHFSDR] WB6DHW Band Pass Filter Board

Yahoo group: UHFSDR
Date: 2012-08-09 01:55:39 UTC
From: Dave
Topic: 1100 Message: 1146

Mike:
Yes, that included the just under 1dB loss of the 2 multiplexers.

Dave - WB6DHW
<http://wb6dhw.com>

On 8/8/2012 6:17 PM, MIKE DURKIN wrote:
>
> I can't remember if that included the loss of the multi switch...
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> ---
> To: UHFSDR@yahoogroups.com
> From: dave@...
> Date: Wed, 8 Aug 2012 17:39:57 -0700
> Subject: Re: [UHFSDR] WB6DHW Band Pass Filter Board
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> From: jeff@... <mailto:jeff@...>
> To: UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> Subject: Re: [UHFSDR] WB6DHW Band Pass Filter Board
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> On 8/8/2012 1:15 AM, John wrote:
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1147. Re: [UHFSDR] WB6DHW Band Pass Filter Board

Yahoo group: UHFSDR
Date: 2012-08-09 07:14:38 UTC
From: John
Topic: 1100 Message: 1147

The BPF core info page http://wb6dhw.com/BPFs/toroid%20coil%20values.xls shows T20-6 for values up to and including 1uH and FT23-61 for values higher the 1uH.

John G3UGY

1148. Re: [UHFSDR] WB6DHW Band Pass Filter Board

Yahoo group: UHFSDR
Date: 2012-08-09 07:16:42 UTC
From: John
Topic: 1100 Message: 1148

Chuck,

Are the pages showing optimized values available?

John G3UGY

From: Charles Nolin
Sent: Thursday, August 09, 2012 12:10 AM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] WB6DHW Band Pass Filter Board

Hi Kees,

I have both of the boards you are asking about. There are a few different docs of that filter
that have been optimize and use different parts than those listed. Some of the docs are about @5 pages long. Alot of time was spent on squeezing the max performance out of it.

Chuck Nolin
WA6LTV/4

From: Kees & Sandy <windy10605@...>
To: UHFSDR@yahoogroups.com
Sent: Wednesday, August 8, 2012 6:26 PM
Subject: Re: [UHFSDR] WB6DHW Band Pass Filter Board

I notice there is a R1 version of the BPF board David has with holes in the pads for toroids and a non R1 version without the holes. Which one are you shipping David ? Does anyone have a picture of one with small toroids ? Really seems like a useful layout without any extra parts I wouldn't be using anyway.....maybe add a low NF switcheable MMIC and make it 80m-6m.

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On 8/8/2012 1:15 AM, John wrote:
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1149. Re: [UHFSDR] WB6DHW Band Pass Filter Board

Yahoo group: UHFSDR
Date: 2012-08-09 11:29:22 UTC
From: Sid Boyce
Topic: 1100 Message: 1149

Hi Kees,
I like Ben's idea, 50mW in --> 20W out would add the flexibility to use either Softrock RXTX or UHFSDR.
73 ... Sid.

On 09/08/12 02:15, Kees & Sandy wrote:
> Dave,
> Great info and I figured toroids would be better by several dB. Glad
> that you are shipping the R1 version because that's the one I want to
> try driven by the SDR2GO and use the LPF for cleaning up the output
> with or without the 20W Amp. That way the PA section will not require
> a separate LPF. Ben is trying to talk me into a pre-Amp stage for the
> 20W Amp.....more in tune with 50mW input.
> UHFSDR sure gets great performance reviews by the guys around here in
> AQRP and the only one "better" ? is the direct conversion QuickSilver
> which costs much more.
> 73 Kees K5BCQ
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> ---------- Original Message ----------
> From: Dave <dave@...>
> To: UHFSDR@yahoogroups.com
> Subject: Re: [UHFSDR] WB6DHW Band Pass Filter Board
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> AADE also has a pretty good filter design tool on their site that
> certainly merits your attention if you're going to play with this
> stuff. It's quite good and it's free as well. Pretty impressive.
> See it at:
>
> www.aade.com
>
> ...just a very satisfied user.
>
> My $.02 worth of opinion...
>
> Jeff Thompson, W3HVU

> ----------
>
> It is a nice little board, useful on many SDR frontends. Any idea
> roughly what the parts cost is ? Might be a good opportunity for
> someone to jump in and provide kits.....maybe for more than 6 bands
> and you select the bands you want to use or use multiple boards. 73
> Kees K5BCQ
>
> ---------- Original Message ----------
> From: Dave <dave@... <mailto:dave%40wb6dhw.com>>
> To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> Subject: Re: [UHFSDR] WB6DHW Band Pass Filter Board
> Date: Wed, 08 Aug 2012 01:27:06 -0700
>
> <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN"
> "http://www.w3.org/TR/html4/strict.dtd">
> John:
> Not that I know of. I have a multi-sourceBOM as well as a
> DigiKey BOM formatted for uploading to Digikey at
> <http://wb6dhw.com/BPF.html>
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 8/8/2012 1:15 AM, John wrote:
> Is anyone doing a kit of L's and C's for the BPF board? John G3UGY
>
> ?
>
> ?
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1150. Resession?

Yahoo group: UHFSDR
Date: 2012-08-09 17:10:25 UTC
From: Alan Hill
Topic: 1150 Message: 1150

Lately, it seems as though the interest in kits has waned worldwide.
Is this a lack of interest, competetion with vacations, or impact from
financial impacts?
Just curious as to what' s happening.
73,
Alan - W6ARH
On Aug 8, 2012 11:34 AM, "Oliver Goldenstein" <oliver.goldenstein@...>
wrote:

> **
>
>
> OK...found some more following this blog from a softrock friend :-)
>
> http://www.k8gu.com/?p=1027
>
> he cloned the circuit from the elecraft xv series.
>
> http://www.elecraft.com/XV/XV.htm
>
> manual with circuit is here:
>
>
> http://www.elecraft.com/manual/XV%20Transverter%20Owner%27s%20Manual%20Rev%20F.pdf
>
> i think i will try one of these first.
>
> 73 Oliver
>
> On 8 August 2012 18:24, MIKE DURKIN <Patriot121@...> wrote:
>
>>
>>
>> I think we should try to talk Kees into doing a stripline amp with
>> RD06VHF & RD16VHF
>>
>> ------------------------------
>> To: UHFSDR@yahoogroups.com
>> From: oliver.goldenstein@...
>> Date: Wed, 8 Aug 2012 17:51:29 +0000
>> Subject: [UHFSDR] Mitsubishi Mosfet Power Modules
>>
>>
>> Hi All !
>>

>> Inspired by Kostas 2 Meter and 70 cm Module i looked around for circuits
>> for the Mitsubishi Power Modules.
>>
>> I have a RA08H1317 8 Watt Power module for round about 26 Euro.
>>
>> http://www.box73.de/download/bauelemente/RA08H1317M.pdf
>>
>> The Datasheet says:
>>
>> "This module is designed for non-linear FM modulation, but may
>> also be used for linear modulation by setting the drain quiescent
>> current with the gate voltage and controlling the output power
>> with the input power."
>>
>> ...
>>
>> "b) Linear AM modulation:
>> By RF input power Pin.
>> The gate voltage is used to set the drain’s quiescent current for the
>> required linearity.
>> "
>>
>>
>> 1) http://www.minikits.com.au/kits7.html#ra08h1317m
>>
>> looks like non linear
>>
>> 2) http://www.byonics.com/ma3
>>
>> non linear for aprs fm but has a interesting power sensing circuit
>>
>> 3) http://www.hamtv.com/pdffiles/PA5-20m.pdf
>>
>> described as ... "Build a 50mw in / 25 Watts p.e.p. out, linear all mode
>> amp and drive from ..."
>>
>> 4) http://site.hfprojectsyahoo.com/vhf_packer_6m_amp
>>
>> 6-Meter VHF Packer amp. Circuit looks like non linear, but description
>> says:
>>
>> "*MITSUBISHI RF MOSFET MODULE *mounted on a heat sink. The RA30H0608M is
>> a 30-watt RF MOSFET Amplifier Module for 12.5-volt mobile radios that
>> operate in the 66- to 88-MHz range. SSB, CW and FM Operation. Also works
>> well at 50MHz."
>>
>> So it looks easy to hook up a PA with such power modules. But i want it
>> to use with SSB and CW on 50 MHz / 144 MHz / 440 MHz. And i am i but
>> confused now.
>>

>> Maybe i am a bit wrong in understanding linear and non-linear mode.
>>
>> Do some of you have experiences using one of this modules?
>>
>> Kosta could you give some more details of your used circuit? i thought
>> one of your first qso's was on 2 Meter SSB?
>>
>> Any tips and suggestions welcome.
>>
>>
>> 73 Oliver DL6KBG
>>
>>
>>
>>
>
>

1151. Re: [UHFSDR] Resession?

Yahoo group: UHFSDR
Date: 2012-08-09 19:12:49 UTC
From: Kees & Sandy
Topic: 1150 Message: 1151
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1152. Re: [UHFSDR] WB6DHW Band Pass Filter Board

Yahoo group: UHFSDR
Date: 2012-08-09 21:53:33 UTC
From: Kees & Sandy
Topic: 1100 Message: 1152
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1153. Re: [UHFSDR] Resession?

Yahoo group: UHFSDR
Date: 2012-08-10 01:36:02 UTC
From: John Williams
Topic: 1150 Message: 1153

It makes me sad that I did not know about hams and SDR when I lived in Austin. Lived there for 25 years and left in 2008. Got my General in 2007 and played with VHF for a couple of years until I got bored with Walkie-talkies. Started HF on softrocks in 2009 and been totally involved since then. Sorry I missed out on the great ham community in Austin for so long.

John - ke5ssh

On 8/9/2012 2:12 PM, Kees & Sandy wrote:
> Alan,
> I have not noticed a decline at all but do expect some drop-off during
> the summer months. It usually picks up right after a presentation or
> magazine article somewhere. A group in France has a hamfest
> presentation and that's followed by a burst of orders from France,
> etc. I don't think Tony has seen any fall-off.....but it does go in
> bursts. Of course, these are my observations, non-scientific,
> non-business and I have no plots to show overall trends, nor do I want
> to spend the time. My only tracking is that of PC boards so I know
> when to reorder another 240sqin before I run out (again). This is
> based on about 2000 kits sold since I started.
> It's still fun and keeps my brain from going to soup.
> By the way, we just had Austin Summerfest (ham radio) and attendees
> were up about 100 from last year.
> 73 Kees K5BCQ
>
> ---------- Original Message ----------
> From: Alan Hill <alan.r.hill@...>
> To: UHFSDR@yahoogroups.com
> Subject: [UHFSDR] Resession?
> Date: Thu, 9 Aug 2012 10:10:25 -0700
>
> Lately, it seems as though the interest in kits has waned worldwide.
> Is this a lack of interest,? competetion with vacations, or impact
> from financial impacts?
> Just curious as to what' s happening.
> 73,
> Alan - W6ARH
>
> On Aug 8, 2012 11:34 AM, "Oliver Goldenstein"
> <oliver.goldenstein@... <mailto:oliver.goldenstein@...>>
> wrote:
>
> ?
>

> OK...found some more following this blog from a softrock friend :-)
>
> http://www.k8gu.com/?p=1027
>
> he cloned the circuit from the elecraft xv series.
>
> http://www.elecraft.com/XV/XV.htm
>
> manual with circuit is here:
>
> http://www.elecraft.com/manual/XV%20Transverter%20Owner%27s%20Manual%20Rev%20F.pdf
>
> i think i will try one of these first.
>
> 73 Oliver
>
> On 8 August 2012 18:24, MIKE DURKIN <Patriot121@...
> <mailto:Patriot121@...>> wrote:
>
>
>
> I think we should try to talk Kees into doing a stripline amp
> with RD06VHF & RD16VHF
>
> ---
> To: UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> From: oliver.goldenstein@...
> <mailto:oliver.goldenstein@...>
> Date: Wed, 8 Aug 2012 17:51:29 +0000
> Subject: [UHFSDR] Mitsubishi Mosfet Power Modules
>
> ?
> Hi All !
>
> Inspired by Kostas 2 Meter and 70 cm Module i looked around
> for circuits for the Mitsubishi Power Modules.
>
> I have a RA08H1317? 8 Watt Power module for round about 26 Euro.
>
> http://www.box73.de/download/bauelemente/RA08H1317M.pdf
>
> The Datasheet says:
>
> "This module is designed for non-linear FM modulation, but may
> also be used for linear modulation by setting the drain quiescent
> current with the gate voltage and controlling the output power
> with the input power."
>
> ...
>

> "b) Linear AM modulation:
> By RF input power Pin.
> The gate voltage is used to set the drain?s quiescent current
> for the required linearity.
> "
>
>
> 1) http://www.minikits.com.au/kits7.html#ra08h1317m
>
> looks like non linear
>
> 2) http://www.byonics.com/ma3
>
> non linear for aprs fm? but has a interesting power sensing
> circuit
>
> 3) http://www.hamtv.com/pdffiles/PA5-20m.pdf
>
> described as ... "Build a 50mw in / 25 Watts p.e.p. out,
> linear all mode amp and drive from ..."
>
> 4) http://site.hfprojectsyahoo.com/vhf_packer_6m_amp
>
> 6-Meter VHF Packer amp. Circuit looks like non linear, but
> description says:
>
> "*MITSUBISHI RF MOSFET MODULE *mounted on a heat sink. The
> RA30H0608M is a 30-watt RF MOSFET Amplifier Module for
> 12.5-volt mobile radios that operate in the 66- to 88-MHz
> range. SSB, CW and FM Operation. Also works well at 50MHz."
>
> So it looks easy to hook up a PA with such power modules. But
> i want it to use with SSB and CW on 50 MHz / 144 MHz / 440
> MHz. And i am i but confused now.
>
> Maybe i am a bit wrong in understanding linear and non-linear
> mode.
>
> Do some of you have experiences using one of this modules?
>
> Kosta could you give some more details of your used circuit? i
> thought one of your first qso's was on 2 Meter SSB?
>
> Any tips and suggestions welcome.
>
>
> 73 Oliver DL6KBG
>
>
>

--

John Williams

KE5SSH - ham since 2007
WQKA523 - GMRS for family use on the farm

1154. Re: [UHFSDR] Resession?

Yahoo group: UHFSDR
Date: 2012-08-10 01:52:46 UTC
From: Kees & Sandy
Topic: 1150 Message: 1154
Attachments: 2 described; binary payloads are missing from this source WARC

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[ Attachment content not displayed ]
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1155. Re: [UHFSDR] Mitsubishi Mosfet Power Modules

Yahoo group: UHFSDR
Date: 2012-08-10 02:10:58 UTC
From: Kostas Ioannidis
Topic: 1132 Message: 1155

Hi all,

Yes both modules (RA08H1317 and RA60H1317 as I used) can both be used for linear modes (SSB,AM). Their datasheets are not always very clear about this (I was also confused when I first started searching...). I used such modules because they are very very easy to work with. I also took inspiration by commercial PAs out there (eg. http://www.ha1ya.hu/htmkepek/me2tprofoto.htm) in the design of mine. I will upload the details on the files section although it is very simple in construction.

73 de SV1IXP

UHFSDR + USB2SDR + BPF/LPF + 100WPA HF/VHF/UHF

1156. RE: [UHFSDR] Mitsubishi Mosfet Power Modules

Yahoo group: UHFSDR
Date: 2012-08-10 02:20:57 UTC
From: MIKE DURKIN
Topic: 1132 Message: 1156

cool deal ... how much are they ..... think you already touched on that ...
To: UHFSDR@yahoogroups.com
From: kostas.ioannidis@...
Date: Fri, 10 Aug 2012 05:10:58 +0300
Subject: Re: [UHFSDR] Mitsubishi Mosfet Power Modules

Hi all,

Yes both modules (RA08H1317 and RA60H1317 as I used) can both be used for linear modes (SSB,AM). Their datasheets are not always very clear about this (I was also confused when I first started searching...). I used such modules because they are very very easy to work with. I also took inspiration by commercial PAs out there (eg. http://www.ha1ya.hu/htmkepek/me2tprofoto.htm) in the design of mine. I will upload the details on the files section although it is very simple in construction.

73 de SV1IXP

UHFSDR + USB2SDR + BPF/LPF + 100WPA HF/VHF/UHF

1157. Re: Mitsubishi Mosfet Power Modules

Yahoo group: UHFSDR
Date: 2012-08-10 03:54:54 UTC
From: Michael
Topic: 1132 Message: 1157

RA60H1317 - 60W for 40$ ... not bad.

Dosent look like its posted yet..

Is there a UHF Equivalent? Wonder how far out of the band you can take it?.?

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
>
> cool deal ... how much are they ..... think you already touched on that ...
> To: UHFSDR@yahoogroups.com
> From: kostas.ioannidis@...
> Date: Fri, 10 Aug 2012 05:10:58 +0300
> Subject: Re: [UHFSDR] Mitsubishi Mosfet Power Modules
>
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>
> Hi all,
>
> Yes both modules (RA08H1317 and RA60H1317 as I used) can both be used for linear modes (SSB,AM). Their datasheets are not always very clear about this (I was also confused when I first started searching...). I used such modules because they are very very easy to work with. I also took inspiration by commercial PAs out there (eg.

http://www.ha1ya.hu/htmkepek/me2tprofoto.htm) in the design of mine. I will upload the details on the files section although it is very simple in construction.
>
>
> 73 de SV1IXP
> ----------
>
> UHFSDR + USB2SDR + BPF/LPF + 100WPA HF/VHF/UHF
>

1159. Re: [UHFSDR] Re: Mitsubishi Mosfet Power Modules

Yahoo group: UHFSDR
Date: 2012-08-10 07:38:40 UTC
From: Oliver Goldenstein
Topic: 1132 Message: 1159

Many thanks Kostas for pointing that out.

I ordered a Kit with parts (ex Mitsubishi brick) from
http://www.minikits.com.au/kits7.html for the 8 Watt module i own.

Michael at the provided link you see a list of availabe modules.

From 50MHz up to 23cm they are available up to 60 Watts. But it depends.
But it depends.

73 Oliver DL6KBG
Am 10.08.2012 05:55 schrieb "Michael" <Patriot121@...>:

>
> RA60H1317 - 60W for 40$ ... not bad.
>
> Dosent look like its posted yet..
>
> Is there a UHF Equivalent? Wonder how far out of the band you can take
> it?.?
>
>
> --- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
> >
> >
> > cool deal ... how much are they ..... think you already touched on that
> ...
> > To: UHFSDR@yahoogroups.com
> > From: kostas.ioannidis@...
> > Date: Fri, 10 Aug 2012 05:10:58 +0300
> > Subject: Re: [UHFSDR] Mitsubishi Mosfet Power Modules
> >
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> > Hi all,
> >
> > Yes both modules (RA08H1317 and RA60H1317 as I used) can both be used
> for linear modes (SSB,AM). Their datasheets are not always very clear about
> this (I was also confused when I first started searching...). I used such
> modules because they are very very easy to work with. I also took
> inspiration by commercial PAs out there (eg.
> http://www.ha1ya.hu/htmkepek/me2tprofoto.htm) in the design of mine. I
> will upload the details on the files section although it is very simple in
> construction.
> >
> >
> > 73 de SV1IXP
> >
> ---
> >
> > UHFSDR + USB2SDR + BPF/LPF + 100WPA HF/VHF/UHF
> >
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> ---
>
> Yahoo! Groups Links
>
>
>
>

1160. Re: WB6DHW Band Pass Filter Board

Yahoo group: UHFSDR
Date: 2012-08-10 08:00:33 UTC
From: v321uk
Topic: 1100 Message: 1160

Kees,

Do you have any plans to do a kit of BPF components? I already have the later PCB with holes for the inductors and would be interested in a set of cores and capacitors for 160m to 10m. I can get them locally from Farnell but it means I'll be buying more than I need for 1 or 2 BPF boards.

73's
John G3UGY

--- In UHFSDR@yahoogroups.com, "Kees & Sandy" <windy10605@...> wrote:
>
> To cut the turns count down a little and use slightly larger devices (smaller fingers was not an option), you can use BN-43-2402 cores for the larger values (low end of the bands) and T-25-2 and T-25-6 toroids for the smaller values .....and mount them on the back of the board so they don't interfere with the capacitors. I ought to wire one up and have some testing done. The cost of the BN and T-25 cores should be around $0.12 each so that's only $5 for all 42 inductors. The NPO capacitors are cheap and I figure <$5 for the remaining parts, buy the boards in bulk from Dave, add a little for "shipping in" costs, state taxes, and PayPal fees, and put a complete BPF Kit together for $25 plus $2-3 postage in the USA, a few dollars more for DX. Offer the option ? .....of 160m to 10m, or 80m to 6m for the six bands...or do something with the 2 extra selects. I think those cores would take 500mW or maybe 1W.....mmm Just some low cost ideas.....a nice WB6DHW High Q BPF Kit for HF frequencies could be used anywhere. Maybe someone could come up with a VHF/UHF verson but there are so many variables ...too many. 73 Kees K5BCQ
>
> ---------- Original Message ----------
> From: "John" <v321uk@...>
> To: <UHFSDR@yahoogroups.com>
> Subject: Re: [UHFSDR] WB6DHW Band Pass Filter Board
> Date: Thu, 9 Aug 2012 08:14:38 +0100
>
>
> <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN"
"http://www.w3.org/TR/html4/strict.dtd">
> The BPF core info page http://wb6dhw.com/BPFs/toroid%20coil%20values.xls shows T20-6 for values up to and including 1uH and FT23-61 for values higher the 1uH. John G3UGY
>

1161. 146mhz output

Yahoo group: UHFSDR
Date: 2012-08-13 14:14:14 UTC
From: MIKE DURKIN
Topic: 1161 Message: 1161

Soo ... im thinking about getting one of those 2m 8W kits from minikits .... any one know how much power is normal from the UHFSDR at that freq?

Id rather use a RD06VHF stripline linear but I don't see one in the net ...

Mike KC7NOA

1162. Re: [UHFSDR] 146mhz output

Yahoo group: UHFSDR
Date: 2012-08-13 17:31:27 UTC
From: Oliver Goldenstein
Topic: 1161 Message: 1162

Hi Mike !

I get 100 mW out at 145 MHz ....

73 Oliver DL6KBG

On 13 August 2012 14:14, MIKE DURKIN <Patriot121@...> wrote:

>
>
> Soo ... im thinking about getting one of those 2m 8W kits from minikits
> .... any one know how much power is normal from the UHFSDR at that freq?
>
> Id rather use a RD06VHF stripline linear but I don't see one in the net ...
>
> Mike KC7NOA
>
>
>

1163. Kits available

Yahoo group: UHFSDR
Date: 2012-08-14 17:00:38 UTC
From: The Silver Fox
Topic: 1163 Message: 1163

Anyone pondering buying UHFSDR or Mobokits, I still have them for sale.

73,

Alan - W6ARH

<http://mobokits.stormwarning.org/> http://mobokits.stormwarning.org/

<http://wb6dhw.com/For_Sale.html> http://wb6dhw.com/For_Sale.html

1164. BPF Experiences

Yahoo group: UHFSDR
Date: 2012-08-14 18:25:05 UTC
From: Kees & Sandy
Topic: 1164 Message: 1164
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1165. Re: BPF Experiences

Yahoo group: UHFSDR
Date: 2012-08-14 18:43:41 UTC
From: Stephen Farthing
Topic: 1164 Message: 1165

Hi Kees,

I have the board but have yet to get the components. I have been really busy here kitting QRSS beacons so have not found the time to source the components. I guess a complete kit would have been better for me.

73s Steve G0XAR

1166. UHFSDR with HPSDR Ozy/Janus

Yahoo group: UHFSDR
Date: 2012-08-14 22:36:17 UTC
From: Jim Sanford
Topic: 1166 Message: 1166

All:

I had asked this once before, but it was buried in a bunch of other questions. Although I've received suggestions on USB2SDR et al, I'm seeking anyone who has hooked up UHFSDR to the TAPR Ozy and Janus boards, which emulate a high performance USB sound card, among other things. If anyone has, I'd like to hear from you about connections, pitfalls, etc.

USB2SDR etc. are all very impressive and promising, but I'd like to at least take a shot at what I already have.

Thanks & 73,
Jim
wb4gcs@...

1167. RE: [UHFSDR] Re: BPF Experiences

Yahoo group: UHFSDR
Date: 2012-08-15 02:05:55 UTC
From: MIKE DURKIN
Topic: 1164 Message: 1167

Iv been wondering if there was a deferent fet switch for more filters .... like 6,2,1.25m & 70cm....

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: squirrox@...
Date: Tue, 14 Aug 2012 19:43:41 +0100
Subject: [UHFSDR] Re: BPF Experiences

Hi Kees,
I have the board but have yet to get the components. I have been really busy here kitting QRSS beacons so have not found the time to source the components. I guess a complete kit would have been better for me.

73s Steve G0XAR

1168. RE: [UHFSDR] Re: BPF Experiences

Yahoo group: UHFSDR
Date: 2012-08-15 02:37:15 UTC
From: Kees & Sandy
Topic: 1164 Message: 1168
Attachments: 2 described; binary payloads are missing from this source WARC

```
[ Attachment content not displayed ]
```

1169. RE: [UHFSDR] Re: BPF Experiences

Yahoo group: UHFSDR
Date: 2012-08-15 03:15:12 UTC
From: MIKE DURKIN
Topic: 1164 Message: 1169

Im trying to urge Dave to make a revised pcb with 6 up to 70cm....

Probably won't happen. I don't know of a cheap bandpass filter with low loss ....

Im hoping that the gutz of Mitreks will do.... lots of burnt up wana-be 100w repeaters....

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: windy10605@...
Date: Wed, 15 Aug 2012 02:37:15 +0000
Subject: RE: [UHFSDR] Re: BPF Experiences

That particular one has 2 more positions which are presently unused, no reason why you can't "daughter board" another 2 "you select the band" on if you want. But you have to see what that does from a signal integrity standpoint. And to answer your question, sure there are different FETs available but I like the layout Dave has used for this one. 73 Kees K5BCQ
---------- Original Message ----------
From: MIKE DURKIN <Patriot121@...>
To: <uhfsdr@yahoogroups.com>
Subject: RE: [UHFSDR] Re: BPF Experiences
Date: Tue, 14 Aug 2012 19:05:55 -0700

Iv been wondering if there was a deferent fet switch for more filters .... like 6,2,1.25m & 70cm....

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: squirrox@...
Date: Tue, 14 Aug 2012 19:43:41 +0100
Subject: [UHFSDR] Re: BPF Experiences

Hi Kees, I have the board but have yet to get the components. I have been really busy here kitting QRSS beacons so have not found the time to source the components. I guess a complete kit would have been better for me. 73s Steve G0XAR

1170. RE: [UHFSDR] Re: BPF Experiences

Yahoo group: UHFSDR
Date: 2012-08-15 04:58:15 UTC
From: The Silver Fox
Topic: 1164 Message: 1170

Check out the mobokits. You can build any filter you like with it.

73,

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
MIKE DURKIN
Sent: Tuesday, August 14, 2012 7:06 PM
To: uhfsdr@yahoogroups.com
Subject: RE: [UHFSDR] Re: BPF Experiences

Iv been wondering if there was a deferent fet switch for more filters ....
like 6,2,1.25m & 70cm....

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: squirrox@...
Date: Tue, 14 Aug 2012 19:43:41 +0100
Subject: [UHFSDR] Re: BPF Experiences

Hi Kees,

I have the board but have yet to get the components. I have been really busy
here kitting QRSS beacons so have not found the time to source the
components. I guess a complete kit would have been better for me.

73s Steve G0XAR

1171. RE: [UHFSDR] Re: BPF Experiences

Yahoo group: UHFSDR
Date: 2012-08-15 05:06:02 UTC
From: MIKE DURKIN
Topic: 1164 Message: 1171

How many bands on the same board ..?

To: UHFSDR@yahoogroups.com
From: alan.r.hill@...
Date: Tue, 14 Aug 2012 21:58:15 -0700
Subject: RE: [UHFSDR] Re: BPF Experiences

Check out the mobokits. You can build any filter you like with it.
73,Alan – W6ARH From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of MIKE DURKIN
Sent: Tuesday, August 14, 2012 7:06 PM
To: uhfsdr@yahoogroups.com
Subject: RE: [UHFSDR] Re: BPF Experiences Iv been wondering if there was a deferent fet switch for more filters .... like 6,2,1.25m & 70cm....

Mike KC7NOA To: UHFSDR@yahoogroups.com
From: squirrox@...
Date: Tue, 14 Aug 2012 19:43:41 +0100
Subject: [UHFSDR] Re: BPF Experiences

Hi Kees, I have the board but have yet to get the components. I have been really busy here kitting QRSS beacons so have not found the time to source the components. I guess a complete kit would have been better for me. 73s Steve G0XAR

1172. Re: [UHFSDR] Re: BPF Experiences

Yahoo group: UHFSDR
Date: 2012-08-15 05:31:24 UTC
From: Dave
Topic: 1164 Message: 1172

I just looked at the datasheet for the mux and don't see a spec for the frequency it will pass or the attenuation vs freq. Two hints are the .25nS delay from input to output(tht would imply several hundred MHz) and the capacitance. Some of the bpf's on the board could be re-designed for different bands using the same layout. Should be able to do at least 6 AND 2m without changing the layout IF the mux will work with those freqs. There also should be other analog muxes with the same pinout. I know I have seen some that will pass 70 cm, but don't remember if the pinout was compatable.

Dave - WB6DHW
<http://wb6dhw.com>

On 8/14/2012 8:15 PM, MIKE DURKIN wrote:
>
> Im trying to urge Dave to make a revised pcb with 6 up to 70cm....
>
> Probably won't happen. I don't know of a cheap bandpass filter with
> low loss ....
>
> Im hoping that the gutz of Mitreks will do.... lots of burnt up
> wana-be 100w repeaters....
>
> Mike KC7NOA
>
> ---
> To: UHFSDR@yahoogroups.com
> From: windy10605@...
> Date: Wed, 15 Aug 2012 02:37:15 +0000
> Subject: RE: [UHFSDR] Re: BPF Experiences
>
> That particular one has 2 more positions which are presently unused,
> no reason why you can't "daughter board" another 2 "you select the
> band" on if you want. But you have to see what that does from a signal
> integrity standpoint. And to answer your question, sure there are
> different FETs available but I like the layout Dave has used for this one.
> 73 Kees K5BCQ
>
> ---------- Original Message ----------
> From: MIKE DURKIN <Patriot121@...>
> To: <uhfsdr@yahoogroups.com>
> Subject: RE: [UHFSDR] Re: BPF Experiences
> Date: Tue, 14 Aug 2012 19:05:55 -0700
>
>

>
> Iv been wondering if there was a deferent fet switch for more filters
> .... like 6,2,1.25m & 70cm....
>
> Mike KC7NOA
>
> ---
> To: UHFSDR@yahoogroups.com
> From: squirrox@...
> Date: Tue, 14 Aug 2012 19:43:41 +0100
> Subject: [UHFSDR] Re: BPF Experiences
>
> Hi Kees,
> I have the board but have yet to get the components. I have been
> really busy here kitting QRSS beacons so have not found the time to
> source the components. I guess a complete kit would have been better
> for me.
> 73s Steve G0XAR
>
>
>

1173. Re: BPF Experiences

Yahoo group: UHFSDR
Date: 2012-08-15 09:22:06 UTC
From: John Forguites
Topic: 1164 Message: 1173

If you want more than 6 bands and, as Dave thinks, the switch is good to mid-vhf, you could cascade to a second BPF board with 6 more layouts with the unused positions on the switch.
John N1EEV

1174. UHFSDR - SDR-Widget moved to new enclosure and fully functional

Yahoo group: UHFSDR
Date: 2012-08-15 18:56:31 UTC
From: Oliver Goldenstein
Topic: 1174 Message: 1174

Hi All!

Due to our soon arriving child i had to finish my winter projects yet.

I ever wanted to move my UHFSDR to a real enclosure and have i fully functional on CW and of course have transmitt working.

The pictures are at:

http://groups.yahoo.com/group/UHFSDR --> Photos --> DL6KBG

I you have questions, feel free to ask me. Yet i have no time to write a big description.

Some of the circuits have been discussed at SDR-Widget and UHFSDR before.

Thanks to Larry for his isolated PTT circuit and Graeme for having CW working with the UHFSDR-Widget and Mobo-Widget.

What a nice little rig.

Thanks also to Dave and Alan for part support and making the kit available.

And all other that helped me with previous asked questions.

73 Oliver DL6KBG

1175. Re: Common antenna/Seperate antenna

Yahoo group: UHFSDR
Date: 2012-08-16 07:41:06 UTC
From: tony_g3ovh
Topic: 930 Message: 1175

Hi Dave
I was just looking at the logic around U6 and U7 and see that Tx o/p is switched to the common ant connector when H4 is shorted to ground for separate ant. This means that only TP4 needs to be connected to an antenna socket for Rx via a capacitor for DC isolation, and the common antenna connection can be used for Tx. Have I misread something here?
Tony

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> Bob:
> The separate antennas connect to TP4 and TP5. I didn't have enough
> space to put in 2 more sma connectors. When using separate antennas,
> both switches in U7 are open.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 5/28/2012 6:42 PM, rhillard@... wrote:
> >
> > How is the seperate antenna implimented? I see the option at H4, but
> > it's implimentation in hardware is not obvious. Shouldn't there be
> > another SMA connector on the board for this?
> >
> > Bob WA6UFQ
> >
> >
> >
>

1176. Re: [UHFSDR] Re: Common antenna/Seperate antenna

Yahoo group: UHFSDR
Date: 2012-08-16 18:06:38 UTC
From: Dave
Topic: 930 Message: 1176

Tony:
That is correct.

Dave - WB6DHW
<http://wb6dhw.com>

On 8/16/2012 12:41 AM, tony_g3ovh wrote:
>
> Hi Dave
> I was just looking at the logic around U6 and U7 and see that Tx o/p
> is switched to the common ant connector when H4 is shorted to ground
> for separate ant. This means that only TP4 needs to be connected to an
> antenna socket for Rx via a capacitor for DC isolation, and the common
> antenna connection can be used for Tx. Have I misread something here?
> Tony
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Dave
> <dave@...> wrote:
> >
> > Bob:
> > The separate antennas connect to TP4 and TP5. I didn't have enough
> > space to put in 2 more sma connectors. When using separate antennas,
> > both switches in U7 are open.
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> > Dave - WB6DHW
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> > On 5/28/2012 6:42 PM, rhillard@... wrote:
> > >
> > > How is the seperate antenna implimented? I see the option at H4, but
> > > it's implimentation in hardware is not obvious. Shouldn't there be
> > > another SMA connector on the board for this?
> > >
> > > Bob WA6UFQ
> > >
> > >
> > >
> >
>
>

1177. Re: Common antenna/Seperate antenna

Yahoo group: UHFSDR
Date: 2012-08-18 12:24:27 UTC
From: Hank
Topic: 930 Message: 1177

Dave,

I didn't want to ask this, as it's probably a pretty dumb question, but I have been looking at my completed UHFSDR and BPF filter boards working up to connecting them. It's always easier to ask the question then fix the mistake.... :)

I follow Tony's comments and the schematic related to grounding H4 and using the common SMA connector from the board instead of TP5 for Tx.

What I don't understand is TP4 connecting to the Rx antenna. I would run a cap for isolation from TP4 to center of another panel mounted sma connector but can I get the RF ground from anywhere on the board? That is what I am not sure of. I assume this is correct and I can probably tie into ground near the common Tx sma connector already on the board by scratching off some of the board mask like I did for the P3/P4 connection, but I wanted to ask first.

Can you give me some guidance? Much appreciated.

On the BPF board I used smt coils from coil craft and if I ever find the second BPF board I bought I might for fun try to use manually wound coils for fun. I am sure the smt based board will be find for my needs, but you have to keep busy you know!

Hank
WZ3HMT

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> Tony:
> That is correct.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 8/16/2012 12:41 AM, tony_g3ovh wrote:
> >
> > Hi Dave
> > I was just looking at the logic around U6 and U7 and see that Tx o/p
> > is switched to the common ant connector when H4 is shorted to ground
> > for separate ant. This means that only TP4 needs to be connected to an
> > antenna socket for Rx via a capacitor for DC isolation, and the common
> > antenna connection can be used for Tx. Have I misread something here?
> > Tony
> >
> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Dave
> > <dave@> wrote:
> > >
> > > Bob:

> > > The separate antennas connect to TP4 and TP5. I didn't have enough
> > > space to put in 2 more sma connectors. When using separate antennas,
> > > both switches in U7 are open.
> > >
> > > Dave - WB6DHW
> > > <http://wb6dhw.com>
> > >
> > > On 5/28/2012 6:42 PM, rhillard@ wrote:
> > > >
> > > > How is the seperate antenna implimented? I see the option at H4, but
> > > > it's implimentation in hardware is not obvious. Shouldn't there be
> > > > another SMA connector on the board for this?
> > > >
> > > > Bob WA6UFQ
> > > >
> > > >
> > > >
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>

1178. Re: [UHFSDR] Re: Common antenna/Seperate antenna

Yahoo group: UHFSDR
Date: 2012-08-19 00:20:27 UTC
From: Dave
Topic: 930 Message: 1178

Hank:
You should be able to get the RF from anywhere on the ground plane.
I would avoid the area near the Si570 and the divider chips. Near TP4
or TP5 is probably best.

Dave - WB6DHW
<http://wb6dhw.com>

On 8/18/2012 5:24 AM, Hank wrote:
>
> Dave,
>
> I didn't want to ask this, as it's probably a pretty dumb question,
> but I have been looking at my completed UHFSDR and BPF filter boards
> working up to connecting them. It's always easier to ask the question
> then fix the mistake.... :)
>
> I follow Tony's comments and the schematic related to grounding H4 and
> using the common SMA connector from the board instead of TP5 for Tx.
>
> What I don't understand is TP4 connecting to the Rx antenna. I would
> run a cap for isolation from TP4 to center of another panel mounted
> sma connector but can I get the RF ground from anywhere on the board?
> That is what I am not sure of. I assume this is correct and I can
> probably tie into ground near the common Tx sma connector already on
> the board by scratching off some of the board mask like I did for the
> P3/P4 connection, but I wanted to ask first.
>
> Can you give me some guidance? Much appreciated.
>
> On the BPF board I used smt coils from coil craft and if I ever find
> the second BPF board I bought I might for fun try to use manually
> wound coils for fun. I am sure the smt based board will be find for my
> needs, but you have to keep busy you know!
>
> Hank
> WZ3HMT
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Dave
> <dave@...> wrote:
> >
> > Tony:
> > That is correct.
> >
> > Dave - WB6DHW

> > <http://wb6dhw.com>
> >
> > On 8/16/2012 12:41 AM, tony_g3ovh wrote:
> > >
> > > Hi Dave
> > > I was just looking at the logic around U6 and U7 and see that Tx o/p
> > > is switched to the common ant connector when H4 is shorted to ground
> > > for separate ant. This means that only TP4 needs to be connected
> to an
> > > antenna socket for Rx via a capacitor for DC isolation, and the
> common
> > > antenna connection can be used for Tx. Have I misread something here?
> > > Tony
> > >
> > > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> <mailto:UHFSDR%40yahoogroups.com>, Dave
> > > <dave@> wrote:
> > > >
> > > > Bob:
> > > > The separate antennas connect to TP4 and TP5. I didn't have enough
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> > > > both switches in U7 are open.
> > > >
> > > > Dave - WB6DHW
> > > > <http://wb6dhw.com>
> > > >
> > > > On 5/28/2012 6:42 PM, rhillard@ wrote:
> > > > >
> > > > > How is the seperate antenna implimented? I see the option at
> H4, but
> > > > > it's implimentation in hardware is not obvious. Shouldn't there be
> > > > > another SMA connector on the board for this?
> > > > >
> > > > > Bob WA6UFQ
> > > > >
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1179. Re: Common antenna/Seperate antenna

Yahoo group: UHFSDR
Date: 2012-08-19 03:22:52 UTC
From: Hank
Topic: 930 Message: 1179

Dave,

Thanks much, that is what I thought. Excellent radio!

Hank
WZ3HMT

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> Hank:
> You should be able to get the RF from anywhere on the ground plane.
> I would avoid the area near the Si570 and the divider chips. Near TP4
> or TP5 is probably best.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 8/18/2012 5:24 AM, Hank wrote:
> >
> > Dave,
> >
> > I didn't want to ask this, as it's probably a pretty dumb question,
> > but I have been looking at my completed UHFSDR and BPF filter boards
> > working up to connecting them. It's always easier to ask the question
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> > sma connector but can I get the RF ground from anywhere on the board?
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> > probably tie into ground near the common Tx sma connector already on
> > the board by scratching off some of the board mask like I did for the
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> > On the BPF board I used smt coils from coil craft and if I ever find
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> > needs, but you have to keep busy you know!
> >
> > Hank
> > WZ3HMT

> >
> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Dave
> > <dave@> wrote:
> > >
> > > Tony:
> > > That is correct.
> > >
> > > Dave - WB6DHW
> > > <http://wb6dhw.com>
> > >
> > > On 8/16/2012 12:41 AM, tony_g3ovh wrote:
> > > >
> > > > Hi Dave
> > > > I was just looking at the logic around U6 and U7 and see that Tx o/p
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> > > > for separate ant. This means that only TP4 needs to be connected
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> > > > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
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> > > > > Dave - WB6DHW
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1180. Re: Common antenna/Seperate antenna

Yahoo group: UHFSDR
Date: 2012-08-19 11:03:17 UTC
From: tony_g3ovh
Topic: 930 Message: 1180

Hi Hank

I discovered that next to TP4 there is a silk screened circle around a via - this appears to be ground and perhaps Dave intended it to be used for just this purpose. The silk screen printing is slightly confusing there, so I got my DVM out to confirm that TP4 is correct and the circled via is ground. in fact I am using a 0.01uF disc ceramic to connect to TP4, and picking up ground from the original antenna connection 1 cm away.

It is indeed a fine radio. I put my first signals out on the 4m band here in the UK yesterday with a RD30HVF1 MOSFET giving between 10 and 15W driven straight from the UHFSDR. All I had to add was an old mobile radio band pass filter and an old aerial changeover relay in a tobacco tin! (plus an antenna) Battling with a few PA stability problems but I am very impressed.

Tony

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> Hank:
> You should be able to get the RF from anywhere on the ground plane.
> I would avoid the area near the Si570 and the divider chips. Near TP4
> or TP5 is probably best.
>
> Dave - WB6DHW
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>
> On 8/18/2012 5:24 AM, Hank wrote:
> >
> > Dave,
> >
> > I didn't want to ask this, as it's probably a pretty dumb question,
> > but I have been looking at my completed UHFSDR and BPF filter boards
> > working up to connecting them. It's always easier to ask the question
> > then fix the mistake.... :)
> >
> > I follow Tony's comments and the schematic related to grounding H4 and
> > using the common SMA connector from the board instead of TP5 for Tx.
> >
> > What I don't understand is TP4 connecting to the Rx antenna. I would
> > run a cap for isolation from TP4 to center of another panel mounted
> > sma connector but can I get the RF ground from anywhere on the board?
> > That is what I am not sure of. I assume this is correct and I can
> > probably tie into ground near the common Tx sma connector already on
> > the board by scratching off some of the board mask like I did for the
> > P3/P4 connection, but I wanted to ask first.
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> > Can you give me some guidance? Much appreciated.
> >
> > On the BPF board I used smt coils from coil craft and if I ever find
> > the second BPF board I bought I might for fun try to use manually
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> > needs, but you have to keep busy you know!
> >
> > Hank
> > WZ3HMT
> >

1181. Re: Common antenna/Seperate antenna

Yahoo group: UHFSDR
Date: 2012-08-19 11:08:16 UTC
From: tony_g3ovh
Topic: 930 Message: 1181

ps I meant to say as well that I am picking up the switched 12V for Tx direct from Q5 collector to feed the aerial changeover relay and bias for the MOSFET PA.

Tony

--- In UHFSDR@yahoogroups.com, "tony_g3ovh" <tabbey01@...> wrote:
>
> Hi Hank
>
> I discovered that next to TP4 there is a silk screened circle around a via - this appears to be ground and perhaps Dave intended it to be used for just this purpose. The silk screen printing is slightly confusing there, so I got my DVM out to confirm that TP4 is correct and the circled via is ground. in fact I am using a 0.01uF disc ceramic to connect to TP4, and picking up ground from the original antenna connection 1 cm away.
>
> It is indeed a fine radio. I put my first signals out on the 4m band here in the UK yesterday with a RD30HVF1 MOSFET giving between 10 and 15W driven straight from the UHFSDR.
> All I had to add was an old mobile radio band pass filter and an old aerial changeover relay in a tobacco tin! (plus an antenna) Battling with a few PA stability problems but I am very impressed.
>
> Tony
>
> --- In UHFSDR@yahoogroups.com, Dave <dave@> wrote:
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> > Hank:
> > You should be able to get the RF from anywhere on the ground plane.
> > I would avoid the area near the Si570 and the divider chips. Near TP4
> > or TP5 is probably best.
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> > > I didn't want to ask this, as it's probably a pretty dumb question,
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> > > needs, but you have to keep busy you know!
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> > > Hank
> > > WZ3HMT
> > >
>

1182. Re: Common antenna/Seperate antenna

Yahoo group: UHFSDR
Date: 2012-08-19 13:56:33 UTC
From: Hank
Topic: 930 Message: 1182

Tony,

Thank you, yes I had seen that via also. I was going to use a short piece of RG174 but did not think that that hole was large enought to get a substantial ground for the braid so I figured I would scrape off some of the ground mask on the back and tie in RG174 braid, using TP4 for the center conductor. Then I was going to mount a daughter board with an SMA just next to the UHFSDR. Then I can use the same idea to tie in Dave's BPF filter board into Rx stream.

It's coming together.

Hank
WZ3HMT

--- In UHFSDR@yahoogroups.com, "tony_g3ovh" <tabbey01@...> wrote:
>
> Hi Hank
>
> I discovered that next to TP4 there is a silk screened circle around a via - this appears to be ground and perhaps Dave intended it to be used for just this purpose. The silk screen printing is slightly confusing there, so I got my DVM out to confirm that TP4 is correct and the circled via is ground. in fact I am using a 0.01uF disc ceramic to connect to TP4, and picking up ground from the original antenna connection 1 cm away.
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> All I had to add was an old mobile radio band pass filter and an old aerial changeover relay in a tobacco tin! (plus an antenna) Battling with a few PA stability problems but I am very impressed.
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> Tony
>
> --- In UHFSDR@yahoogroups.com, Dave <dave@> wrote:
> >
> > Hank:
> > You should be able to get the RF from anywhere on the ground plane.
> > I would avoid the area near the Si570 and the divider chips. Near TP4
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> > Dave - WB6DHW
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> > On 8/18/2012 5:24 AM, Hank wrote:
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> > > Dave,
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> > > What I don't understand is TP4 connecting to the Rx antenna. I would
> > > run a cap for isolation from TP4 to center of another panel mounted
> > > sma connector but can I get the RF ground from anywhere on the board?
> > > That is what I am not sure of. I assume this is correct and I can
> > > probably tie into ground near the common Tx sma connector already on
> > > the board by scratching off some of the board mask like I did for the
> > > P3/P4 connection, but I wanted to ask first.
> > >
> > > Can you give me some guidance? Much appreciated.
> > >
> > > On the BPF board I used smt coils from coil craft and if I ever find
> > > the second BPF board I bought I might for fun try to use manually
> > > wound coils for fun. I am sure the smt based board will be find for my
> > > needs, but you have to keep busy you know!
> > >
> > > Hank
> > > WZ3HMT
> > >
>

1183. Re: Common antenna/Seperate antenna

Yahoo group: UHFSDR
Date: 2012-08-19 14:05:14 UTC
From: Hank
Topic: 930 Message: 1183

Tony,

You wouldn't happen to have a schematic and parts you are using for the Tx relay that you could share with me. I haven't started looking at the Tx switching part yet as I am just trying to get the receive with band switching working.

Right now I am running it with a LPT port which works but I kringe when I look at it. I am considering either buying a SDR2GO kit from K5BCQ which would make it a stand alone radio and more challenging, or the USB2SDR which looks overall easier, but still requires the PC. Both ways I can control the Si570.

Hank
WZ3HMT

--- In UHFSDR@yahoogroups.com, "tony_g3ovh" <tabbey01@...> wrote:
>
>
> ps I meant to say as well that I am picking up the switched 12V for Tx direct from Q5 collector to feed the aerial changeover relay and bias for the MOSFET PA.
>
> Tony
>
> --- In UHFSDR@yahoogroups.com, "tony_g3ovh" <tabbey01@> wrote:
> >
> > Hi Hank
> >
> > I discovered that next to TP4 there is a silk screened circle around a via - this appears to be ground and perhaps Dave intended it to be used for just this purpose. The silk screen printing is slightly confusing there, so I got my DVM out to confirm that TP4 is correct and the circled via is ground. in fact I am using a 0.01uF disc ceramic to connect to TP4, and picking up ground from the original antenna connection 1 cm away.
> >
> > It is indeed a fine radio. I put my first signals out on the 4m band here in the UK yesterday with a RD30HVF1 MOSFET giving between 10 and 15W driven straight from the UHFSDR.
> > All I had to add was an old mobile radio band pass filter and an old aerial changeover relay in a tobacco tin! (plus an antenna) Battling with a few PA stability problems but I am very impressed.
> >
> > Tony
> >
> > --- In UHFSDR@yahoogroups.com, Dave <dave@> wrote:
> > >
> > > Hank:
> > > You should be able to get the RF from anywhere on the ground plane.
> > > I would avoid the area near the Si570 and the divider chips. Near TP4
> > > or TP5 is probably best.

> > >
> > > Dave - WB6DHW
> > > <http://wb6dhw.com>
> > >
> > > On 8/18/2012 5:24 AM, Hank wrote:
> > > > >
> > > > > Dave,
> > > > >
> > > > > I didn't want to ask this, as it's probably a pretty dumb question,
> > > > > but I have been looking at my completed UHFSDR and BPF filter boards
> > > > > working up to connecting them. It's always easier to ask the question
> > > > > then fix the mistake.... :)
> > > > >
> > > > > I follow Tony's comments and the schematic related to grounding H4 and
> > > > > using the common SMA connector from the board instead of TP5 for Tx.
> > > > >
> > > > > What I don't understand is TP4 connecting to the Rx antenna. I would
> > > > > run a cap for isolation from TP4 to center of another panel mounted
> > > > > sma connector but can I get the RF ground from anywhere on the board?
> > > > > That is what I am not sure of. I assume this is correct and I can
> > > > > probably tie into ground near the common Tx sma connector already on
> > > > > the board by scratching off some of the board mask like I did for the
> > > > > P3/P4 connection, but I wanted to ask first.
> > > > >
> > > > > Can you give me some guidance? Much appreciated.
> > > > >
> > > > > On the BPF board I used smt coils from coil craft and if I ever find
> > > > > the second BPF board I bought I might for fun try to use manually
> > > > > wound coils for fun. I am sure the smt based board will be find for my
> > > > > needs, but you have to keep busy you know!
> > > > >
> > > > > Hank
> > > > > WZ3HMT
> > > > >
> >
>

1184. Re: Common antenna/Seperate antenna

Yahoo group: UHFSDR
Date: 2012-08-20 08:23:13 UTC
From: tony_g3ovh
Topic: 930 Message: 1184

Hi Hank

Perhaps we should change the title of this thread if we get further off-topic. No circuit needed - my aerial c/o relay is probably 60's vintage - from an old Pye utility mobile radio. Its a Magnetic Devices 12V relay - operates fine direct from Q5 collector pin - volts drop to 11 or so - which is OK for the input to the 8V regulator on the UHFSDR, and also the bias feed to my PA. I'll post a picture of it later in its 2oz tobacco tin with a stripline SWR bridge (currently bypassed to maximise my 70MHz o/p power).
These relays appear on eBay occasionally, but I am sure there are plenty of modern equivalents. You need one which will operate off 12V or less and can switch whatever power you PA produces. Presumably the relays used in the various higher power BPF boards are OK for this. The important thing about such a relay is that it has low capacitance at the off contact and doesn't introduce too much of an SWR glitch. In the case of the Magnetic Devices relay used at VHF, the coil operates an armature which connects to contacts on feedthroughs directly on the end of the relay. If you have more money, there are plenty of Coax relays available.

Tony

--- In UHFSDR@yahoogroups.com, "Hank" <hank@...> wrote:
>
> Tony,
>
> You wouldn't happen to have a schematic and parts you are using for the Tx relay that you could share with me. I haven't started looking at the Tx switching part yet as I am just trying to get the receive with band switching working.
>
> Right now I am running it with a LPT port which works but I kringe when I look at it. I am considering either buying a SDR2GO kit from K5BCQ which would make it a stand alone radio and more challenging, or the USB2SDR which looks overall easier, but still requires the PC. Both ways I can control the Si570.
>
> Hank
> WZ3HMT
>
>
>
> --- In UHFSDR@yahoogroups.com, "tony_g3ovh" <tabbey01@> wrote:
> >
> >
> > ps I meant to say as well that I am picking up the switched 12V for Tx direct from Q5 collector to feed the aerial changeover relay and bias for the MOSFET PA.
> >
> > Tony
> >
> > --- In UHFSDR@yahoogroups.com, "tony_g3ovh" <tabbey01@> wrote:

> > >
> > > Hi Hank
> > >
> > > I discovered that next to TP4 there is a silk screened circle around a via - this appears to be ground and perhaps Dave intended it to be used for just this purpose. The silk screen printing is slightly confusing there, so I got my DVM out to confirm that TP4 is correct and the circled via is ground. in fact I am using a 0.01uF disc ceramic to connect to TP4, and picking up ground from the original antenna connection 1 cm away.
> > >
> > > It is indeed a fine radio. I put my first signals out on the 4m band here in the UK yesterday with a RD30HVF1 MOSFET giving between 10 and 15W driven straight from the UHFSDR.
> > > All I had to add was an old mobile radio band pass filter and an old aerial changeover relay in a tobacco tin! (plus an antenna) Battling with a few PA stability problems but I am very impressed.
> > >
> > > Tony
> > >
> > > --- In UHFSDR@yahoogroups.com, Dave <dave@> wrote:
> > > >
> > > > Hank:
> > > > You should be able to get the RF from anywhere on the ground plane.
> > > > I would avoid the area near the Si570 and the divider chips. Near TP4
> > > > or TP5 is probably best.
> > > >
> > > > Dave - WB6DHW
> > > > <http://wb6dhw.com>
> > > >
> > > > On 8/18/2012 5:24 AM, Hank wrote:
> > > > >
> > > > > Dave,
> > > > >
> > > > > I didn't want to ask this, as it's probably a pretty dumb question,
> > > > > but I have been looking at my completed UHFSDR and BPF filter boards
> > > > > working up to connecting them. It's always easier to ask the question
> > > > > then fix the mistake.... :)
> > > > >
> > > > > I follow Tony's comments and the schematic related to grounding H4 and
> > > > > using the common SMA connector from the board instead of TP5 for Tx.
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> > > > > What I don't understand is TP4 connecting to the Rx antenna. I would
> > > > > run a cap for isolation from TP4 to center of another panel mounted
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> > > > > That is what I am not sure of. I assume this is correct and I can
> > > > > probably tie into ground near the common Tx sma connector already on
> > > > > the board by scratching off some of the board mask like I did for the
> > > > > P3/P4 connection, but I wanted to ask first.
> > > > >
> > > > > Can you give me some guidance? Much appreciated.
> > > > >
> > > > > On the BPF board I used smt coils from coil craft and if I ever find

> > > > > the second BPF board I bought I might for fun try to use manually
> > > > > wound coils for fun. I am sure the smt based board will be find for my
> > > > > needs, but you have to keep busy you know!
> > > > >
> > > > > Hank
> > > > > WZ3HMT
> > > > >
> > >
> >
>

1185. Re: Common antenna/Seperate antenna

Yahoo group: UHFSDR
Date: 2012-08-20 09:00:57 UTC
From: tony_g3ovh
Topic: 930 Message: 1185

Have uploaded a picture of my tobacco tin to "G3OVH" in the Photos folder
Tony

--- In UHFSDR@yahoogroups.com, "tony_g3ovh" <tabbey01@...> wrote:
>
> Hi Hank
>
> Perhaps we should change the title of this thread if we get further off-topic. No circuit needed - my aerial c/o relay is probably 60's vintage - from an old Pye utility mobile radio. Its a Magnetic Devices 12V relay - operates fine direct from Q5 collector pin - volts drop to 11 or so - which is OK for the input to the 8V regulator on the UHFSDR, and also the bias feed to my PA. I'll post a picture of it later in its 2oz tobacco tin with a stripline SWR bridge (currently bypassed to maximise my 70MHz o/p power).
> These relays appear on eBay occasionally, but I am sure there are plenty of modern equivalents. You need one which will operate off 12V or less and can switch whatever power you PA produces. Presumably the relays used in the various higher power BPF boards are OK for this. The important thing about such a relay is that it has low capacitance at the off contact and doesn't introduce too much of an SWR glitch. In the case of the Magnetic Devices relay used at VHF, the coil operates an armature which connects to contacts on feedthroughs directly on the end of the relay. If you have more money, there are plenty of Coax relays available.
>
> Tony
>
> --- In UHFSDR@yahoogroups.com, "Hank" <hank@> wrote:
> >
> > Tony,
> >
> > You wouldn't happen to have a schematic and parts you are using for the Tx relay that you could share with me. I haven't started looking at the Tx switching part yet as I am just trying to get the receive with band switching working.
> >
> > Right now I am running it with a LPT port which works but I kringe when I look at it. I am considering either buying a SDR2GO kit from K5BCQ which would make it a stand alone radio and more challenging, or the USB2SDR which looks overall easier, but still requires the PC. Both ways I can control the Si570.
> >
> > Hank
> > WZ3HMT
> >
> >

1186. Re: Common antenna/Seperate antenna

Yahoo group: UHFSDR
Date: 2012-08-20 10:31:04 UTC
From: Chris
Topic: 930 Message: 1186

While you are discussing the rf switching and the common antenna
option can I ask another question?
I have almost finished my build but could not get the voltages
correct on U7 using the AS169 tests from the Assembly Guide dated
1st June 2012.
With H4 open (not shorted) I am supposed to see U7-6 as 0v and
U7-4 as 3.0-5.5v. Instead I have the reverse U7-6 is 4.8v and
U7-4 is 0v.
I was really worried by this and reflowed all the pins on U6 and
U7 - just the same result. So looking at the schematic I tried
shorting H4 for Sep. antenna. The readings are now back to where
they should be.
I don't really understand the action of U6 for Rf switching with
U7 so perhaps someone could tell me if this OK or what to try
please?
If it is OK then where do I pick up the sep.antenna?
73 Chris G0IMX

--- In UHFSDR@yahoogroups.com, "tony_g3ovh" <tabbey01@...> wrote:
>
> Have uploaded a picture of my tobacco tin to "G3OVH" in the Photos folder
> Tony
>
> --- In UHFSDR@yahoogroups.com, "tony_g3ovh" <tabbey01@> wrote:
> >
> > Hi Hank
> >
> > Perhaps we should change the title of this thread if we get further off-topic. No
circuit needed - my aerial c/o relay is probably 60's vintage - from an old Pye utility
mobile radio. Its a Magnetic Devices 12V relay - operates fine direct from Q5 collector pin
- volts drop to 11 or so - which is OK for the input to the 8V regulator on the UHFSDR, and
also the bias feed to my PA. I'll post a picture of it later in its 2oz tobacco tin with a
stripline SWR bridge (currently bypassed to maximise my 70MHz o/p power).
> > These relays appear on eBay occasionally, but I am sure there are plenty of modern
equivalents. You need one which will operate off 12V or less and can switch whatever power
you PA produces. Presumably the relays used in the various higher power BPF boards are OK
for this. The important thing about such a relay is that it has low capacitance at the off
contact and doesn't introduce too much of an SWR glitch. In the case of the Magnetic
Devices relay used at VHF, the coil operates an armature which connects to contacts on
feedthroughs directly on the end of the relay. If you have more money, there are plenty of
Coax relays available.
> >
> > Tony
> >
> > --- In UHFSDR@yahoogroups.com, "Hank" <hank@> wrote:

> > >
> > > Tony,
> > >
> > > You wouldn't happen to have a schematic and parts you are using for the Tx relay that you could share with me. I haven't started looking at the Tx switching part yet as I am just trying to get the receive with band switching working.
> > >
> > > Right now I am running it with a LPT port which works but I kringe when I look at it. I am considering either buying a SDR2GO kit from K5BCQ which would make it a stand alone radio and more challenging, or the USB2SDR which looks overall easier, but still requires the PC. Both ways I can control the Si570.
> > >
> > > Hank
> > > WZ3HMT
> > >
> > >
>

1187. Re: Common antenna/Seperate antenna

Yahoo group: UHFSDR
Date: 2012-08-20 18:53:58 UTC
From: tony_g3ovh
Topic: 930 Message: 1187

Hi Chris

There was a long discussion of U2/U7 wrong information in the build notes - see a thread starting here:

http://groups.yahoo.com/group/UHFSDR/message/254

Tony

--- In UHFSDR@yahoogroups.com, "Chris" <clacey@...> wrote:
>
> While you are discussing the rf switching and the common antenna
> option can I ask another question?
> I have almost finished my build but could not get the voltages
> correct on U7 using the AS169 tests from the Assembly Guide dated
> 1st June 2012.
> With H4 open (not shorted) I am supposed to see U7-6 as 0v and
> U7-4 as 3.0-5.5v. Instead I have the reverse U7-6 is 4.8v and
> U7-4 is 0v.
> I was really worried by this and reflowed all the pins on U6 and
> U7 - just the same result. So looking at the schematic I tried
> shorting H4 for Sep. antenna. The readings are now back to where
> they should be.
> I don't really understand the action of U6 for Rf switching with
> U7 so perhaps someone could tell me if this OK or what to try
> please?
> If it is OK then where do I pick up the sep.antenna?
> 73 Chris G0IMX
>
> --- In UHFSDR@yahoogroups.com, "tony_g3ovh" <tabbey01@> wrote:
> >
> > Have uploaded a picture of my tobacco tin to "G3OVH" in the Photos folder
> > Tony
> >
> > --- In UHFSDR@yahoogroups.com, "tony_g3ovh" <tabbey01@> wrote:
> > >
> > > Hi Hank
> > >
> > > Perhaps we should change the title of this thread if we get further off-topic. No circuit needed - my aerial c/o relay is probably 60's vintage - from an old Pye utility mobile radio. Its a Magnetic Devices 12V relay - operates fine direct from Q5 collector pin - volts drop to 11 or so - which is OK for the input to the 8V regulator on the UHFSDR, and also the bias feed to my PA. I'll post a picture of it later in its 2oz tobacco tin with a stripline SWR bridge (currently bypassed to maximise my 70MHz o/p power).
> > > These relays appear on eBay occasionally, but I am sure there are plenty of modern equivalents. You need one which will operate off 12V or less and can switch whatever power

you PA produces. Presumably the relays used in the various higher power BPF boards are OK for this. The important thing about such a relay is that it has low capacitance at the off contact and doesn't introduce too much of an SWR glitch. In the case of the Magnetic Devices relay used at VHF, the coil operates an armature which connects to contacts on feedthroughs directly on the end of the relay. If you have more money, there are plenty of Coax relays available.
> > >
> > > Tony
> > >
> > > --- In UHFSDR@yahoogroups.com, "Hank" <hank@> wrote:
> > > >
> > > > Tony,
> > > >
> > > > You wouldn't happen to have a schematic and parts you are using for the Tx relay that you could share with me. I haven't started looking at the Tx switching part yet as I am just trying to get the receive with band switching working.
> > > >
> > > > Right now I am running it with a LPT port which works but I kringe when I look at it. I am considering either buying a SDR2GO kit from K5BCQ which would make it a stand alone radio and more challenging, or the USB2SDR which looks overall easier, but still requires the PC. Both ways I can control the Si570.
> > > >
> > > > Hank
> > > > WZ3HMT
> > > >
> > > >
> >
>

1188. ghpsdr3-alex and digipan

Yahoo group: UHFSDR
Date: 2012-08-20 21:15:53 UTC
From: MIKE DURKIN
Topic: 1188 Message: 1188

Well ... even though I still don't get sound to my speakers. Im running ghpsdr3-alex with digipan on 40m.... nice to see a windows program working so well in a linux/ubuntu environment...

Having some fun now ....

Mike KC7NOA

1189. Re: [UHFSDR] Re: Common antenna/Seperate antenna

Yahoo group: UHFSDR
Date: 2012-08-20 21:44:26 UTC
From: Sid Boyce
Topic: 930 Message: 1189

Or going straight to the deal
http://groups.yahoo.com/group/UHFSDR/message/445
73 ... Sid.

On 20/08/12 19:53, tony_g3ovh wrote:
>
> Hi Chris
>
> There was a long discussion of U2/U7 wrong information in the build
> notes - see a thread starting here:
>
> http://groups.yahoo.com/group/UHFSDR/message/254
>
> Tony
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
> "Chris" <clacey@...> wrote:
> >
> > While you are discussing the rf switching and the common antenna
> > option can I ask another question?
> > I have almost finished my build but could not get the voltages
> > correct on U7 using the AS169 tests from the Assembly Guide dated
> > 1st June 2012.
> > With H4 open (not shorted) I am supposed to see U7-6 as 0v and
> > U7-4 as 3.0-5.5v. Instead I have the reverse U7-6 is 4.8v and
> > U7-4 is 0v.
> > I was really worried by this and reflowed all the pins on U6 and
> > U7 - just the same result. So looking at the schematic I tried
> > shorting H4 for Sep. antenna. The readings are now back to where
> > they should be.
> > I don't really understand the action of U6 for Rf switching with
> > U7 so perhaps someone could tell me if this OK or what to try
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> > If it is OK then where do I pick up the sep.antenna?
> > 73 Chris G0IMX
> >
> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
> "tony_g3ovh" <tabbey01@> wrote:
> > >
> > > Have uploaded a picture of my tobacco tin to "G3OVH" in the Photos
> folder
> > > Tony
> > >
> > > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
> "tony_g3ovh" <tabbey01@> wrote:

> > > >
> > > > Hi Hank
> > > >
> > > > Perhaps we should change the title of this thread if we get
> further off-topic. No circuit needed - my aerial c/o relay is probably
> 60's vintage - from an old Pye utility mobile radio. Its a Magnetic
> Devices 12V relay - operates fine direct from Q5 collector pin - volts
> drop to 11 or so - which is OK for the input to the 8V regulator on
> the UHFSDR, and also the bias feed to my PA. I'll post a picture of it
> later in its 2oz tobacco tin with a stripline SWR bridge (currently
> bypassed to maximise my 70MHz o/p power).
> > > > These relays appear on eBay occasionally, but I am sure there
> are plenty of modern equivalents. You need one which will operate off
> 12V or less and can switch whatever power you PA produces. Presumably
> the relays used in the various higher power BPF boards are OK for
> this. The important thing about such a relay is that it has low
> capacitance at the off contact and doesn't introduce too much of an
> SWR glitch. In the case of the Magnetic Devices relay used at VHF, the
> coil operates an armature which connects to contacts on feedthroughs
> directly on the end of the relay. If you have more money, there are
> plenty of Coax relays available.
> > > >
> > > > Tony
> > > >
> > > > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
> "Hank" <hank@> wrote:
> > > > >
> > > > > Tony,
> > > > >
> > > > > You wouldn't happen to have a schematic and parts you are
> using for the Tx relay that you could share with me. I haven't started
> looking at the Tx switching part yet as I am just trying to get the
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> > > > > Right now I am running it with a LPT port which works but I
> kringe when I look at it. I am considering either buying a SDR2GO kit
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> > > > > WZ3HMT
> > > > >
> > > > >
> > >
> >
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1190. SDR-WIDGET Where to buy a kit ??

Yahoo group: UHFSDR
Date: 2012-08-21 09:25:35 UTC
From: W. Haslinger
Topic: 1190 Message: 1190

Hi All, i tried to contact Yoyodyne, but they don't seem to exist eny more.
Has anyone an alternative source for a kit ?

:-) Wolfgang OE3WHU

1191. Re: Common antenna/Seperate antenna

Yahoo group: UHFSDR
Date: 2012-08-21 10:39:52 UTC
From: Chris
Topic: 930 Message: 1191

Thanks Tony and Sid - the thread on U2/U7 strangeness was ....strange.
If I understand, using a jumper for H5-2/3 was correct and the AS169s is the right part. So I do have AS169s (labelled HMC554 on the packet). I broke U7 removing it because I thought it was bad. The new chip behaves the same as before with reversed polarity on pins6 and 4.
Hanks message from Dec 8 2011 had voltages for U6 which are the same as mine so there is hope :)
Hank also mentioned that 'some of the tests in the manual failed' so I shall just carry on and start the RX tests.
Thanks again for your help.
Chris

--- In UHFSDR@yahoogroups.com, Sid Boyce <sboyce@...> wrote:
>
> Or going straight to the deal
> http://groups.yahoo.com/group/UHFSDR/message/445
> 73 ... Sid.
>
> On 20/08/12 19:53, tony_g3ovh wrote:
> >
> > Hi Chris
> >
> > There was a long discussion of U2/U7 wrong information in the build
> > notes - see a thread starting here:
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> > http://groups.yahoo.com/group/UHFSDR/message/254
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> > Tony
> >
> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
> > "Chris" <clacey@> wrote:
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> > > While you are discussing the rf switching and the common antenna
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> > > I have almost finished my build but could not get the voltages
> > > correct on U7 using the AS169 tests from the Assembly Guide dated
> > > 1st June 2012.
> > > With H4 open (not shorted) I am supposed to see U7-6 as 0v and
> > > U7-4 as 3.0-5.5v. Instead I have the reverse U7-6 is 4.8v and
> > > U7-4 is 0v.
> > > I was really worried by this and reflowed all the pins on U6 and
> > > U7 - just the same result. So looking at the schematic I tried
> > > shorting H4 for Sep. antenna. The readings are now back to where
> > > they should be.
> > > I don't really understand the action of U6 for Rf switching with
> > > U7 so perhaps someone could tell me if this OK or what to try

> > > please?
> > > If it is OK then where do I pick up the sep.antenna?
> > > 73 Chris G0IMX
> > >

1192. Re: SDR-WIDGET Where to buy a kit ??

Yahoo group: UHFSDR
Date: 2012-08-21 10:46:31 UTC
From: SW1IXP
Topic: 1190 Message: 1192

Hi Wolfgang,

I suggest you to have a look at USB2SDR
http://www.wb5rvz.com/usb2sdr/

I've do get excellent results with my UHFSDR as you can view in my files
http://groups.yahoo.com/group/UHFSDR/files/SV1IXP/

73 de SV1IXP

UHFSDR + USB2SDR + BPF/LPF + 100WPA HF/VHF/UHF

1193. Re: [UHFSDR] Re: Common antenna/Seperate antenna

Yahoo group: UHFSDR
Date: 2012-08-21 12:06:24 UTC
From: Sid Boyce
Topic: 930 Message: 1193

On 21/08/12 11:39, Chris wrote:
>
> Thanks Tony and Sid - the thread on U2/U7 strangeness was ....strange.
> If I understand, using a jumper for H5-2/3 was correct and the AS169s
> is the right part. So I do have AS169s (labelled HMC554 on the packet).
>
For AS169's definitely H5-2/3 strapped. As the build doc says, the
HMC544 is different to the CSH210R and AS169 so it's important to verify
which chip you have which I see you have done. I didn't know
mis-labelling is still happening.

The original documentation mentioned AS157 and that chip had me chasing
my tail for around 8 months - it is a dud as far as the UHFSDR is concerned.

As I was building I edited the build doc as a record for later reference.
---
193. If the HMC544 is installed, skip to step 214
CSH210R, ***AS157*** (Have 7), or AS169 Tests
*** AS169 *** (Have 10)
194. Connect H5-2 to H5-3.

>
> I broke U7 removing it because I thought it was bad. The new chip
> behaves the same as before with reversed polarity on pins6 and 4.
> Hanks message from Dec 8 2011 had voltages for U6 which are the same
> as mine so there is hope :)
> Hank also mentioned that 'some of the tests in the manual failed' so I
> shall just carry on and start the RX tests.
> Thanks again for your help.
> Chris
>
I went through the same loop with U6 and U7 time and time again because
of the AS157. With CSH210R or AS169 you should be OK.

I case you need AS169's, I have spares.
73 ... Sid.

>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Sid
> Boyce <sboyce@...> wrote:
> >
> > Or going straight to the deal
> > http://groups.yahoo.com/group/UHFSDR/message/445
> > 73 ... Sid.
> >
> > On 20/08/12 19:53, tony_g3ovh wrote:

> > >
> > > Hi Chris
> > >
> > > There was a long discussion of U2/U7 wrong information in the build
> > > notes - see a thread starting here:
> > >
> > > http://groups.yahoo.com/group/UHFSDR/message/254
> > >
> > > Tony
> > >
> > > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> <mailto:UHFSDR%40yahoogroups.com>,
> > > "Chris" <clacey@> wrote:
> > > >
> > > > While you are discussing the rf switching and the common antenna
> > > > option can I ask another question?
> > > > I have almost finished my build but could not get the voltages
> > > > correct on U7 using the AS169 tests from the Assembly Guide dated
> > > > 1st June 2012.
> > > > With H4 open (not shorted) I am supposed to see U7-6 as 0v and
> > > > U7-4 as 3.0-5.5v. Instead I have the reverse U7-6 is 4.8v and
> > > > U7-4 is 0v.
> > > > I was really worried by this and reflowed all the pins on U6 and
> > > > U7 - just the same result. So looking at the schematic I tried
> > > > shorting H4 for Sep. antenna. The readings are now back to where
> > > > they should be.
> > > > I don't really understand the action of U6 for Rf switching with
> > > > U7 so perhaps someone could tell me if this OK or what to try
> > > > please?
> > > > If it is OK then where do I pick up the sep.antenna?
> > > > 73 Chris G0IMX
> > > >
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1194. Re: SDR-WIDGET Where to buy a kit ??

Yahoo group: UHFSDR
Date: 2012-08-21 14:43:27 UTC
From: W. Haslinger
Topic: 1190 Message: 1194

Hi Kostas,
thanks for your hint and nice documentation. You answered an open question on USB2SDR to me .. if UHFSDR (i.e. the si570) is controlled by the board.
Gratulations for your project !
My intention is to build an exclusive IF-TRX for my microwave transverters, so we have something in common.
Just the ADC used in the SDR-Widget is far better than the one in the USB2SDR board, and it also runs with Linux, which i need as my "computer" will be a small RaspberryPI board (for the application in the field outside).
Your 2m and 70cm modules are inspiring to me anyway, as that could be a worthy add on to my microwave station.
So again thanks for your reply !!

73 de Wolfgang OE3WHU

--- In UHFSDR@yahoogroups.com, "SW1IXP" <kostas.ioannidis@...> wrote:
>
> Hi Wolfgang,
>
> I suggest you to have a look at USB2SDR
> http://www.wb5rvz.com/usb2sdr/
>
> I've do get excellent results with my UHFSDR as you can view in my files
> http://groups.yahoo.com/group/UHFSDR/files/SV1IXP/
>
> 73 de SV1IXP
> ----------
> UHFSDR + USB2SDR + BPF/LPF + 100WPA HF/VHF/UHF
>

1195. Re: SDR-WIDGET Where to buy a kit ??

Yahoo group: UHFSDR
Date: 2012-08-22 08:12:22 UTC
From: SW1IXP
Topic: 1190 Message: 1195

Ok,

> Just the ADC used in the SDR-Widget is far better than the one in the USB2SDR board, and it also runs with Linux, which i need as my "computer" will be a small RaspberryPI board (for the application in the field outside).

For performance, with USB2SDR/UHFSDR the ADC gives me a total noise
figure better than my IC-910 !!
(-144dBm noise floor at 500Hz bandwidth) so it is well beyond my expectations already and of course there is 'HPADC' addon of USB2SDR with the ADC that
sdr-widget has, but I dont think I could gain anything more honestly.

As for Linux, from what I know there are some news on the field for
USB2SDR and gphsdr.
But for Tx, IMHO the only reliable, easy setup so far solution is the
PowerSDR and of course the Windows platform, thats why I chosen it.

73 de SV1IXP

UHFSDR + USB2SDR + BPF/LPF + 100WPA HF/VHF/UHF

1196. YU1LM 2-Meter BPF

Yahoo group: UHFSDR
Date: 2012-08-25 09:46:45 UTC
From: Oliver Goldenstein
Topic: 1196 Message: 1196

HI All !

Just finished a 2-Meter BPF designed by Tasa YU1LM.

I uploaded some pIctures to my UHFSDR Folder.

A description you may see here:

http://dl6kbg.blogspot.de/2012/08/2-meter-yu1lm-bandpass-filter-144-mhz.html

This Filter is not finished for ham-radio usage yet. But i think i will
keep this filter and will build a second one.

Have Fun !

73 Oliver

1197. 100 watt filter shape

Yahoo group: UHFSDR
Date: 2012-08-25 10:36:00 UTC
From: rune
Topic: 1197 Message: 1197

Hello All

I have uploaded filter shape from my 100 watt filter today.(See under files LA7THA)
I am using a Signal Hound Spectrum Analyzer and tracking generator.
When i did my measure i found that the 24/28 Mhz filter and the 50 Mhz filter have "wrong" cutoff
I dont know if i have made the filter wrong or if this is actually a fault when i measure the filter. Any comments please.
The files are small pdf format

73 Rune LA7THA

1198. Re: [UHFSDR] 100 watt filter shape

Yahoo group: UHFSDR
Date: 2012-08-25 20:18:23 UTC
From: Dave
Topic: 1197 Message: 1198

Rune:
Do you have the correct cores? If you have an inductance meter, check the coil inductance. The cores should be T50-10 cores and are black. They should not be Red or Yellow. It's possible I put the wrong ones in the kit.

Dave - WB6DHW
<http://wb6dhw.com>

On 8/25/2012 3:36 AM, rune wrote:
>
> Hello All
>
> I have uploaded filter shape from my 100 watt filter today.(See under
> files LA7THA)
> I am using a Signal Hound Spectrum Analyzer and tracking generator.
> When i did my measure i found that the 24/28 Mhz filter and the 50 Mhz
> filter have "wrong" cutoff
> I dont know if i have made the filter wrong or if this is actually a
> fault when i measure the filter. Any comments please.
> The files are small pdf format
>
> 73 Rune LA7THA
>
>

1199. Re: 100 watt filter shape

Yahoo group: UHFSDR
Date: 2012-08-26 09:01:50 UTC
From: rune
Topic: 1197 Message: 1199

Hey Dave

ok the core are black, i will check my work again counting turns etc.
I am at work in the north sea and not sure if we have inductance meter here. will check and reply later.

73 LA7THA/MM

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> Rune:
> Do you have the correct cores? If you have an inductance meter,
> check the coil inductance. The cores should be T50-10 cores and are
> black. They should not be Red or Yellow. It's possible I put the wrong
> ones in the kit.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 8/25/2012 3:36 AM, rune wrote:
> >
> > Hello All
> >
> > I have uploaded filter shape from my 100 watt filter today.(See under
> > files LA7THA)
> > I am using a Signal Hound Spectrum Analyzer and tracking generator.
> > When i did my measure i found that the 24/28 Mhz filter and the 50 Mhz
> > filter have "wrong" cutoff
> > I dont know if i have made the filter wrong or if this is actually a
> > fault when i measure the filter. Any comments please.
> > The files are small pdf format
> >
> > 73 Rune LA7THA
> >
> >
>

1200. Re: [UHFSDR] Re: 100 watt filter shape

Yahoo group: UHFSDR
Date: 2012-08-26 09:13:53 UTC
From: Dave
Topic: 1197 Message: 1200

Rune:
If the turns are close together, try spreading them out to use about
80% of the core. That will lower the inductance.

Dave - WB6DHW
<http://wb6dhw.com>

On 8/26/2012 2:01 AM, rune wrote:
>
> Hey Dave
>
> ok the core are black, i will check my work again counting turns etc.
> I am at work in the north sea and not sure if we have inductance meter
> here. will check and reply later.
>
> 73 LA7THA/MM
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Dave
> <dave@...> wrote:
> >
> > Rune:
> > Do you have the correct cores? If you have an inductance meter,
> > check the coil inductance. The cores should be T50-10 cores and are
> > black. They should not be Red or Yellow. It's possible I put the wrong
> > ones in the kit.
> >
> > Dave - WB6DHW
> > <http://wb6dhw.com>
> >
> > On 8/25/2012 3:36 AM, rune wrote:
> > >
> > > Hello All
> > >
> > > I have uploaded filter shape from my 100 watt filter today.(See under
> > > files LA7THA)
> > > I am using a Signal Hound Spectrum Analyzer and tracking generator.
> > > When i did my measure i found that the 24/28 Mhz filter and the 50
> Mhz
> > > filter have "wrong" cutoff
> > > I dont know if i have made the filter wrong or if this is actually a
> > > fault when i measure the filter. Any comments please.
> > > The files are small pdf format
> > >
> > > 73 Rune LA7THA
> > >

> > >
> >
>
>

1201. Re: 100 watt filter shape

Yahoo group: UHFSDR
Date: 2012-08-26 13:35:13 UTC
From: rune
Topic: 1197 Message: 1201

Hi Again Dave

Ok the never ending story to remember that 1 turn is counted when you pass the hole in the core. I removed 1 turn on the 50 Mhz filter, now 8 turn and the capacitors are checked to be the correct value C45 and C47 are 51 pF and C46 is 100 pF. After this I did the new test now I have around -5.4 db loss @ 50500 Mhz
Still the cutoff is not correct; I have also checked the core is type black. Was wondering if the test leads to and from the filter and generator was taken into account but from what I remember when you do a Sweep thru immediately you actually "reset" the Analyzer and generator or that will be you reference point. See in my folder LA7THA/new measurements. I do not have an inductance meter here onboard the ship, so I have to wait until I am coming back home in 3 weeks time.

73 Rune LA7THA/MM

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> Rune:
> If the turns are close together, try spreading them out to use about
> 80% of the core. That will lower the inductance.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 8/26/2012 2:01 AM, rune wrote:
> >
> > Hey Dave
> >
> > ok the core are black, i will check my work again counting turns etc.
> > I am at work in the north sea and not sure if we have inductance meter
> > here. will check and reply later.
> >
> > 73 LA7THA/MM
> >
> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Dave
> > <dave@> wrote:
> > >
> > > Rune:
> > > Do you have the correct cores? If you have an inductance meter,
> > > check the coil inductance. The cores should be T50-10 cores and are
> > > black. They should not be Red or Yellow. It's possible I put the wrong
> > > ones in the kit.
> > >
> > > Dave - WB6DHW
> > > <http://wb6dhw.com>
> > >

> > > On 8/25/2012 3:36 AM, rune wrote:
> > > >
> > > > Hello All
> > > >
> > > > I have uploaded filter shape from my 100 watt filter today.(See under
> > > > files LA7THA)
> > > > I am using a Signal Hound Spectrum Analyzer and tracking generator.
> > > > When i did my measure i found that the 24/28 Mhz filter and the 50
> > Mhz
> > > > filter have "wrong" cutoff
> > > > I dont know if i have made the filter wrong or if this is actually a
> > > > fault when i measure the filter. Any comments please.
> > > > The files are small pdf format
> > > >
> > > > 73 Rune LA7THA
> > > >
> > > >
> > >
> >
> >
>

1202. Re: YU1LM 2-Meter BPF

Yahoo group: UHFSDR
Date: 2012-08-29 15:03:01 UTC
From: Ed
Topic: 1196 Message: 1202

Hi Oliver,

I made up a YU1LM 144 Mhz filter and I spent many days trying to get it to work without success despite building it accurately to the information. I eventually used variables for ALL components and with the help of a vector network analyser I achieved the result show in my GM3SBC files section.

Insertion Loss 1.9dB 144 Mhz to 146 Mhz
122 Mhz -40 dB
167 Mhz -40 dB
Return loss 25dB within the passband , Flat response !

I think the chances of getting it to work correctly with standard parts is next to nil.

Regards Ed GM3SBC

--- In UHFSDR@yahoogroups.com, Oliver Goldenstein <oliver.goldenstein@...> wrote:
>
> HI All !
>
> Just finished a 2-Meter BPF designed by Tasa YU1LM.
>
> I uploaded some pIctures to my UHFSDR Folder.
>
> A description you may see here:
>
> http://dl6kbg.blogspot.de/2012/08/2-meter-yu1lm-bandpass-filter-144-mhz.html
>
> This Filter is not finished for ham-radio usage yet. But i think i will
> keep this filter and will build a second one.
>
> Have Fun !
>
> 73 Oliver
>

1203. RE: [UHFSDR] Re: YU1LM 2-Meter BPF

Yahoo group: UHFSDR
Date: 2012-08-29 15:12:20 UTC
From: MIKE DURKIN
Topic: 1196 Message: 1203

Kinda the reason Id rather buy helical filters .... though I think the loss through helical is higher....

To: UHFSDR@yahoogroups.com
From: ed.murphy31@...
Date: Wed, 29 Aug 2012 15:03:01 +0000
Subject: [UHFSDR] Re: YU1LM 2-Meter BPF

Hi Oliver,

I made up a YU1LM 144 Mhz filter and I spent many days trying to get it to work without success despite building it accurately to the information. I eventually used variables for ALL components and with the help of a vector network analyser I achieved the result show in my GM3SBC files section.

Insertion Loss 1.9dB 144 Mhz to 146 Mhz

122 Mhz -40 dB

167 Mhz -40 dB

Return loss 25dB within the passband , Flat response !

I think the chances of getting it to work correctly with standard parts is next to nil.

Regards Ed GM3SBC

--- In UHFSDR@yahoogroups.com, Oliver Goldenstein <oliver.goldenstein@...> wrote:

>

> HI All !

>

> Just finished a 2-Meter BPF designed by Tasa YU1LM.

>

> I uploaded some pIctures to my UHFSDR Folder.

>

> A description you may see here:

>

> http://dl6kbg.blogspot.de/2012/08/2-meter-yu1lm-bandpass-filter-144-mhz.html

>

> This Filter is not finished for ham-radio usage yet. But i think i will

> keep this filter and will build a second one.

>

> Have Fun !

>

> 73 Oliver

>

1204. Re: [UHFSDR] Re: YU1LM 2-Meter BPF

Yahoo group: UHFSDR
Date: 2012-08-29 20:19:13 UTC
From: Kostas Ioannidis
Topic: 1196 Message: 1204

Hi all!

Also in my setup I had to retune the filter by spreading out the coils so as to raise the passband's frequency (with Tasa's values it was centered in 135MHZ)
My final setup had 1.3dB insertion loss and less than 1.5 SWR in the 144-146MHz range. I did not change the capacitor values, I just spread out the coils checking the result with my miniVNA . You could also check this:

http://www.funcubedongle.com/?p=456#comment-1732

73 de SV1IXP

UHFSDR + USB2SDR + BPF/LPF + 100WPA HF/VHF/UHF

1205. New file uploaded to UHFSDR

Yahoo group: UHFSDR
Date: 2012-08-29 20:32:41 UTC
From: UHFSDR@yahoogroups.com
Topic: 2 Message: 1205

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the UHFSDR
group.

File : /OZ5AGK/2M_bandpass_loss.jpg
Uploaded by : daekt1 <daekt1@...>
Description : Yu1lm,s bandpass filter - plot

You can access this file at the URL:
http://groups.yahoo.com/group/UHFSDR/files/OZ5AGK/2M_bandpass_loss.jpg

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

daekt1 <daekt1@...>

1206. SV: [UHFSDR] Re: YU1LM 2-Meter BPF

Yahoo group: UHFSDR
Date: 2012-08-29 20:52:15 UTC
From: Flemming Nielsen
Topic: 1196 Message: 1206

Hi !

I have uploaded a plot of yu1lm,s bandpass filter with under 1db loss under files/oz5agk . I also had to spread out the coils. The loss is not important at this point , I used a rx amplifire before the filter (Low noise 0,8 db) . I have also been playing with a 3/ helical filter and I best like yu1lm,s . Less loss and better curves .Maybe the pcb layout also is a factor.

73 vy oz5agk / Flemming

_____
Fra: Kostas Ioannidis <kostas.ioannidis@...>
Til: UHFSDR@yahoogroups.com
Sendt: 22:19 onsdag den 29. august 2012
Emne: Re: [UHFSDR] Re: YU1LM 2-Meter BPF

Hi all!

Also in my setup I had to retune the filter by spreading out the coils so as to raise the passband's frequency (with Tasa's values it was centered in 135MHZ)
My final setup had 1.3dB insertion loss and less than 1.5 SWR in the 144-146MHz range. I did not change the capacitor values, I just spread out the coils checking the result with my miniVNA . You could also check this:

http://www.funcubedongle.com/?p=456#comment-1732

73 de SV1IXP

UHFSDR + USB2SDR + BPF/LPF + 100WPA HF/VHF/UHF

1207. RE: SV: [UHFSDR] Re: YU1LM 2-Meter BPF

Yahoo group: UHFSDR
Date: 2012-08-29 21:43:43 UTC
From: MIKE DURKIN
Topic: 1196 Message: 1207

Was the same pcb material used? And thickness of copper? I'm thinking that might have made a difference...

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: daekt1@...
Date: Wed, 29 Aug 2012 21:52:15 +0100
Subject: SV: [UHFSDR] Re: YU1LM 2-Meter BPF

Hi ! I have uploaded a plot of yu1lm,s bandpass filter with under 1db loss under files/oz5agk . I also had to spread out the coils. The loss is not important at this point , I used a rx amplifire before the filter (Low noise 0,8 db) . I have also been playing with a 3/ helical filter and I best like yu1lm,s . Less loss and better curves .Maybe the pcb layout also is a factor.
73 vy oz5agk / Flemming
Fra: Kostas Ioannidis <kostas.ioannidis@...>
Til: UHFSDR@yahoogroups.com
Sendt: 22:19 onsdag den 29. august 2012
Emne: Re: [UHFSDR] Re: YU1LM 2-Meter BPF

Hi all!

Also in my setup I had to retune the filter by spreading out the coils so as to raise the passband's frequency (with Tasa's values it was centered in 135MHZ)
My final setup had 1.3dB insertion loss and less than 1.5 SWR in the 144-146MHz range. I did not change the capacitor values, I just spread out the coils checking the result with my miniVNA . You could also check this:

http://www.funcubedongle.com/?p=456#comment-1732

73 de SV1IXP

UHFSDR + USB2SDR + BPF/LPF + 100WPA HF/VHF/UHF

1208. Re: SV: [UHFSDR] Re: YU1LM 2-Meter BPF

Yahoo group: UHFSDR
Date: 2012-08-31 16:58:55 UTC
From: Oliver Goldenstein
Topic: 1196 Message: 1208

Hi All !

Many thanks for all of your replies and suggestions. Mike i use a double sided copper.

Meanwhile i found this link which does a more precise calculation:

http://hamwaves.com/antennas/inductance.html

I prepared the second pcb board but will complete it tomorrow.

Based on the calculations from the provided link i now used a 4mm drill as a base for coil winding. So the center of the 1mm wire coil is at 5mm.

More updates tomorrow

Have a nice weekend

73 Oliver DL6KBG

On 29 August 2012 23:43, MIKE DURKIN <Patriot121@...> wrote:

>
>
> Was the same pcb material used? And thickness of copper? I'm thinking that
> might have made a difference...
>
> Mike KC7NOA
>
> ---
> To: UHFSDR@yahoogroups.com
> From: daekt1@...
> Date: Wed, 29 Aug 2012 21:52:15 +0100
> Subject: SV: [UHFSDR] Re: YU1LM 2-Meter BPF
>
>
>
> Hi !
>
> I have uploaded a plot of yu1lm,s bandpass filter with under 1db loss
> under files/oz5agk . I also had to spread out the coils. The loss is not
> important at this point , I used a rx amplifire before the filter (Low
> noise 0,8 db) . I have also been playing with a 3/ helical filter and I
> best like yu1lm,s . Less loss and better curves .Maybe the pcb layout also
> is a factor.
>
> 73 vy oz5agk / Flemming

>
>
> *Fra:* Kostas Ioannidis <kostas.ioannidis@...>
> *Til:* UHFSDR@yahoogroups.com
> *Sendt:* 22:19 onsdag den 29. august 2012
> *Emne:* Re: [UHFSDR] Re: YU1LM 2-Meter BPF
>
>
> Hi all!
>
> Also in my setup I had to retune the filter by spreading out the coils so
> as to raise the passband's frequency (with Tasa's values it was centered in
> 135MHZ)
> My final setup had 1.3dB insertion loss and less than 1.5 SWR in the
> 144-146MHz range. I did not change the capacitor values, I just spread out
> the coils checking the result with my miniVNA . You could also check this:
>
> http://www.funcubedongle.com/?p=456#comment-1732
>
>
>
> 73 de SV1IXP
>
> ----------
> UHFSDR + USB2SDR + BPF/LPF + 100WPA HF/VHF/UHF
>
>
>
>
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>
>

1209. SV: SV: [UHFSDR] Re: YU1LM 2-Meter BPF

Yahoo group: UHFSDR
Date: 2012-09-03 18:49:06 UTC
From: Flemming Nielsen
Topic: 1196 Message: 1209

Hi Mike.

I don´t think that thickness of copper is important but the thickness of the pcb may be a factor. Mine is 1,5 mm.How much of the surface is etched away is also important, it matters to
The capacity. What type of capacitors is also important. I prefers ceramic (on vhf and uhf) .If you can´t get a decent plot try to change your capacitors with other types of the same value (or adjustable, but use only high quality). I have bad experiences with film capacitors.

73 vy oz5agk / Flemming

Fra: MIKE DURKIN <Patriot121@...>
Til: uhfsdr@yahoogroups.com
Sendt: 23:43 onsdag den 29. august 2012
Emne: RE: SV: [UHFSDR] Re: YU1LM 2-Meter BPF

Was the same pcb material used? And thickness of copper? I'm thinking that might have made a difference...

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: daekt1@...
Date: Wed, 29 Aug 2012 21:52:15 +0100
Subject: SV: [UHFSDR] Re: YU1LM 2-Meter BPF

Hi !

I have uploaded a plot of yu1lm,s bandpass filter with under 1db loss under files/oz5agk . I also had to spread out the coils. The loss is not important at this point , I used a rx amplifire before the filter (Low noise 0,8 db) . I have also been playing with a 3/ helical filter and I best like yu1lm,s . Less loss and better curves .Maybe the pcb layout also is a factor.

73 vy oz5agk / Flemming

Fra: Kostas Ioannidis <kostas.ioannidis@...>
Til: UHFSDR@yahoogroups.com
Sendt: 22:19 onsdag den 29. august 2012
Emne: Re: [UHFSDR] Re: YU1LM 2-Meter BPF

Hi all!

Also in my setup I had to retune the filter by spreading out the coils so as to raise the passband's frequency (with Tasa's values it was centered in 135MHZ)
My final setup had 1.3dB insertion loss and less than 1.5 SWR in the 144-146MHz range. I did not change the capacitor values, I just spread out the coils checking the result with my miniVNA . You could also check this:

http://www.funcubedongle.com/?p=456#comment-1732

73 de SV1IXP

UHFSDR + USB2SDR + BPF/LPF + 100WPA HF/VHF/UHF

1210. Re: [UHFSDR] hsusb

Yahoo group: UHFSDR
Date: 2012-09-04 06:57:41 UTC
From: Dave
Topic: 136 Message: 1210

Colin:
Did you finally get it to work on WIN7 64 bit? Did you have a problem needing a signed driver? If it is working, I would like to upload the work around to the files area.

Dave - WB6DHW
<http://wb6dhw.com>

On 5/7/2011 12:58 AM, Colin wrote:
> gettin there...
> downloaded the driver on the PowerSDR-IQ download page for the HSUSB.
>
> (The hsusb.inf was set up for xp new Hsusb.inf txt below open up
> HSUSB.inf in notepad copy txt below and paste into inf and save)
>
> So heres the work around for win 7 x64
> 1)Not not insatll Cysuiteusb into program files...
> put it into root drive
>
> 2) Copy the HSUSB.inf and CuUSB.spt into the
> D:\cypress****\Driver\bin\wlh\x64
>
> 3) reboot pc..... as whe BIOS screen pops up keep pressing F8
> need to boot pc with unsigned driver option
>
> 4) install driver ..use have disk mode and point to HSUSB.inf
>
> 5) Start Cypress USB Control Center.
> if all wis working well the HSUSB should work
>
> (HSUSB.inf win 7 x64)
>
> ; Installation INF for the HSUSB Driver for Windows 7 x64
> ; by M0DMJ
> ; Automatic re-enumeration and Cypress firmware download
>
> [Version]
> Signature="$WINDOWS NT$"
> Class=USB
> ClassGUID={36FC9E60-C465-11CF-8056-444553540000}
> provider=%CYUSB_Provider%
> CatalogFile=CYUSB.cat
> DriverVer=19/01/2011,3.4.5.000
> ;---;
>

```
> [SourceDisksNames]
> 1=%CYUSB_INSTALL%,,,
>
> [SourceDisksFiles]
> CyUsb.sys = 1
> CyUsb.spt = 1
>
> [DestinationDirs]
> CYUSB.Files.Ext = 10,System32\Drivers
>
> [ControlFlags]
> ExcludeFromSelect = *
>
> [Manufacturer]
> %CYUSB_Provider%=Device,NT,NTx86,NTamd64
>
> ;for all platforms
> [Device]
> ;%VID_XXXX&PID_XXXX.DeviceDesc%=CyUsb, USB\VID_XXXX&PID_XXXX
>
> ;for windows 2000 non intel platforms
> [Device.NT]
> ;%VID_XXXX&PID_XXXX.DeviceDesc%=CyUsb, USB\VID_XXXX&PID_XXXX
>
> ;for x86 platforms
> [Device.NTx86]
> ;%VID_XXXX&PID_XXXX.DeviceDesc%=CyUsb, USB\VID_XXXX&PID_XXXX
>
> ;for x64 platforms
> [Device.NTamd64]
> %VID_04B4&PID_8613.DeviceDesc%=CyUsb, USB\VID_04B4&PID_8613
> %USB\VID_04B4&PID_1002.DeviceDesc%=HSUSBDRV.Dev, USB\VID_04B4&PID_1002
> %USB\VID_0456&PID_EE07.DeviceDesc%=HSUSBDRV.Dev, USB\VID_0456&PID_EE07
>
> [PreCopySection]
> HKR,,NoSetupUI,,1
>
> [DestinationDirs]
> CyUsb.Files.Ext = 10,System32\Drivers
> HSUSBDRV.Files.Ext = 10,System32\Drivers
> HSUSBDRV.Files.Inf = 10,INF
> ;-----Uncomment below to support script file processing-----;
> CyUsb.Files.Spt = 10,System32\CyUsb
> ;-----------------------------------------------------------;
>
> [CyUsb.NT]
> CopyFiles=CyUsb.Files.Ext
> ;-----Uncomment below to support script file processing-----;
> CopyFiles=CyUsb.Files.Spt
> ;-----------------------------------------------------------;
```

```
> AddReg=CyUsb.AddReg
>
> [CyUsb.NT.HW]
> AddReg=CyUsb.AddReg.Guid
>
> [CyUsb.NT.Services]
> Addservice = CyUsb, 0x00000002, CyUsb.AddService
>
> [CYUSB.AddService]
> DisplayName = %CYUSB_Description%
> ServiceType = 1 ; SERVICE_KERNEL_DRIVER
> StartType = 3 ; SERVICE_DEMAND_START
> ErrorControl = 1 ; SERVICE_ERROR_NORMAL
> ServiceBinary = %10%\System32\Drivers\CYUSB.sys
> AddReg = CYUSB.AddReg
> LoadOrderGroup = Base
>
> [CYUSB.AddReg]
> ; Deprecating - do not use in new apps to identify a CYUSB driver
> HKR,,DevLoader,,*ntkern
> HKR,,NTMPDriver,,CYUSB.sys
> ; You may optionally include a check for DriverBase in your application
> to check for a CYUSB driver
> HKR,,DriverBase,,CYUSB.sys
> HKR,"Parameters","MaximumTransferSize",0x10001,4096
> HKR,"Parameters","DebugLevel",0x10001,2
> HKR,,FriendlyName,,%CYUSB_Description%
>
> [CyUsb.Files.Ext]
> CyUsb.sys
>
> ;-----Uncomment below to support script file processing-----;
> [CyUsb.Files.Spt]
> CyUsb.spt
> ;-----------------------------------------------------------;
>
> [CyUsb.AddReg.Guid]
> HKR,,DriverGUID,,%CyUsb.GUID%
> ;-----Uncomment below to support script file processing-----;
> HKR,,DriverEXECSCRIPT,,%CyUsb.EXECSCRIPT%
> ;-----------------------------------------------------------;
> ;===============================================================================
>
> [HSUSBDRV.Dev]
> CopyFiles=HSUSBDRV.Files.Ext, HSUSBDRV.Files.Inf
> AddReg=HSUSBDRV.AddReg
>
> [HSUSBDRV.Dev.NT]
> ; copyfiles commented out for Win2K to avoid user intervention during
> install
```

```
> ; CopyFiles=HSUSBDRV.Files.Ext, HSUSBDRV.Files.Inf
> AddReg=HSUSBDRV.AddReg
>
> [HSUSBDRV.Dev.NT.Services]
> Addservice = HSUSBDRV, 0x00000002, HSUSBDRV.AddService
>
> [HSUSBDRV.AddService]
> DisplayName = %HSUSBDRV.SvcDesc%
> ServiceType = 1 ; SERVICE_KERNEL_DRIVER
> StartType = 2 ; SERVICE_AUTO_START
> ErrorControl = 1 ; SERVICE_ERROR_NORMAL
> ServiceBinary = %10%\System32\Drivers\CyUSB.sys
> LoadOrderGroup = Base
>
> [HSUSBDRV.AddReg]
> HKR,,DevLoader,,*ntkern
> HKR,,NTMPDriver,,CyUSB.sys
>
> [HSUSBDRV.Files.Ext]
> CyUSB.sys
>
> [HSUSBDRV.Files.Inf]
> HSUSB2.Inf
>
> [HSUSBDRV.AddReg.Guid]
> HKR,,DriverGUID,,%CYUSB.GUID%
>
> ;-----------------------------------------------------------;
>
> ;-----------------------------------------------------------;
>
> [Strings]
> CYPRESS="Cypress"
> MfgName="Cypress"
> CYUSB_INSTALL="Cypress Generic USB Driver Installation Disk"
> VID_04B4&PID_8613.DeviceDesc="Cypress Generic USB Device HSUSB"
> CyUsb.SvcDesc="Cypress Generic USB Driver HSUSB"
> USB\VID_04B4&PID_1002.DeviceDesc="SV1EIA HSUSB Device"
> USB\VID_0456&PID_EE07.DeviceDesc="HSUSB Device"
> HSUSBDRV.SvcDesc="M0DMJ HSUSB Interface"
> ;------------Replace GUID below with custom GUID-------------;
> CyUsb.GUID="{AE18AA60-7F6A-11d4-97DD-00010229B959}"
> ;-----------------------------------------------------------;
> ;-----Uncomment below to support script file processing-----;
> CyUsb.EXECSCRIPT="\systemroot\system32\CyUsb\CyUsb.spt"
> ;-----------------------------------------------------------;
>
```

1211. Hardrock50 with UHFSDR

Yahoo group: UHFSDR
Date: 2012-09-11 21:55:49 UTC
From: joshtlogan
Topic: 1211 Message: 1211

I was curious if anyone had looked at combining the Hardrock50 with the UHFSDR.

http://www.hobbypcb.com/amateur-radio/amateur-radio/hardrock-50-hf-power-amp-kit.html

Any suggestions?

73, Josh KD7HGL

1212. RE: [UHFSDR] Hardrock50 with UHFSDR

Yahoo group: UHFSDR
Date: 2012-09-11 22:58:01 UTC
From: MIKE DURKIN
Topic: 1211 Message: 1212

yes ... but problem of low drive from uhfsdr = 50mW ... hardrock takes min of 500mW

To: UHFSDR@yahoogroups.com
From: kd7hgl@...
Date: Tue, 11 Sep 2012 21:55:49 +0000
Subject: [UHFSDR] Hardrock50 with UHFSDR

I was curious if anyone had looked at combining the Hardrock50 with the UHFSDR.

http://www.hobbypcb.com/amateur-radio/amateur-radio/hardrock-50-hf-power-amp-kit.html

Any suggestions?

73, Josh KD7HGL

1213. Re: Hardrock50 with UHFSDR

Yahoo group: UHFSDR
Date: 2012-09-11 23:09:58 UTC
From: joshtlogan
Topic: 1211 Message: 1213

Jim had this response:

Buying another driver board might be a low cost way to go and it should be possible to cascade them. If you only need 1/2 watt it doesn't make sense to use a 4:1 transformer on the output. I attached a schematic for 1W, 22 dB gain amp that I use on my bench to get the Siggen up to the 1/2 watt needed to test amplifiers. I built it in a small Bud bow with a BNC on each end. It biases at about 100mA

You could get a driver PCB and build this circuit on it and put it inside the Hardrock-50 with the stock driver. The only thing I would be concerned about is oscillation, you are starting to get lots of gain in a relatively small enclosure. But if you pays careful attention to shielded coax runs it should be OK.

73's
Jim WA2EUJ

I think it would be possible to get a bit more gain in place. What I did not understand was the RX/TX chain and if relays would be in the right place for it to work.

Do you have other suggestions for a TX power chain?

73, Josh KD7HGL

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
>
> yes ... but problem of low drive from uhfsdr = 50mW ... hardrock takes min of 500mW
>
> To: UHFSDR@yahoogroups.com
> From: kd7hgl@...
> Date: Tue, 11 Sep 2012 21:55:49 +0000
> Subject: [UHFSDR] Hardrock50 with UHFSDR
>
>
> I was curious if anyone had looked at combining the Hardrock50 with the UHFSDR.
>
>
>
> http://www.hobbypcb.com/amateur-radio/amateur-radio/hardrock-50-hf-power-amp-kit.html
>
>
>
> Any suggestions?
>
>

>
> 73, Josh KD7HGL
>

1214. Re: [UHFSDR] Hardrock50 with UHFSDR

Yahoo group: UHFSDR
Date: 2012-09-11 23:36:44 UTC
From: Dave
Topic: 1211 Message: 1214

They have just come out with a driver board for the 50W amp that will
work with 50mW. Available from the same source.

Dave - WB6DHW
<http://wb6dhw.com>

On 9/11/2012 3:58 PM, MIKE DURKIN wrote:
>
> yes ... but problem of low drive from uhfsdr = 50mW ... hardrock takes
> min of 500mW
>
> ---
> To: UHFSDR@yahoogroups.com
> From: kd7hgl@...
> Date: Tue, 11 Sep 2012 21:55:49 +0000
> Subject: [UHFSDR] Hardrock50 with UHFSDR
>
>
>
> I was curious if anyone had looked at combining the Hardrock50 with
> the UHFSDR.
>
> http://www.hobbypcb.com/amateur-radio/amateur-radio/hardrock-50-hf-power-amp-kit.html
>
> Any suggestions?
>
> 73, Josh KD7HGL
>
>
>

1215. Re: [UHFSDR] Hardrock50 with UHFSDR

Yahoo group: UHFSDR
Date: 2012-09-12 00:20:57 UTC
From: Sid Boyce
Topic: 1211 Message: 1215

Hi Dave,
I just checked hobbypcb site and it's not listed.
73 ... Sid.

On 12/09/12 00:36, Dave wrote:
>
> They have just come out with a driver board for the 50W amp that
> will work with 50mW. Available from the same source.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 9/11/2012 3:58 PM, MIKE DURKIN wrote:
>>
>> yes ... but problem of low drive from uhfsdr = 50mW ... hardrock
>> takes min of 500mW
>>
>> ---
>> To: UHFSDR@yahoogroups.com
>> From: kd7hgl@...
>> Date: Tue, 11 Sep 2012 21:55:49 +0000
>> Subject: [UHFSDR] Hardrock50 with UHFSDR
>>
>>
>>
>> I was curious if anyone had looked at combining the Hardrock50 with
>> the UHFSDR.
>>
>> http://www.hobbypcb.com/amateur-radio/amateur-radio/hardrock-50-hf-power-amp-kit.html
>>
>> Any suggestions?
>>
>> 73, Josh KD7HGL
>>
>>
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1216. Re: [UHFSDR] Hardrock50 with UHFSDR

Yahoo group: UHFSDR
Date: 2012-09-12 00:57:28 UTC
From: Javier Fernandez
Topic: 1211 Message: 1216

There is plenty of room in the Hardrock50 enclosure for the UHFSDR board. All we need is a small SMD low pass filter 1.8 - 54 MHz, additional software on the control PCB and it could be possible to have a self contained 50W SDR Transceiver.

73, Javier
KC2QII

_____
From: Dave <dave@...>
To: UHFSDR@yahoogroups.com
Sent: Tuesday, September 11, 2012 7:36 PM
Subject: Re: [UHFSDR] Hardrock50 with UHFSDR

  They have just come out with a driver board for the 50W amp that will work with 50mW. Available from the same source.

Dave - WB6DHW
<http://wb6dhw.com>

On 9/11/2012 3:58 PM, MIKE DURKIN wrote:

>yes ... but problem of low drive from uhfsdr = 50mW ... hardrock takes min of 500mW
>
>
>
>_____
>To: UHFSDR@yahoogroups.com
>From: kd7hgl@...
>Date: Tue, 11 Sep 2012 21:55:49 +0000
>Subject: [UHFSDR] Hardrock50 with UHFSDR
>
>
>
>
>I was curious if anyone had looked at combining
the Hardrock50 with the UHFSDR.
>
>http://www.hobbypcb.com/amateur-radio/amateur-radio/hardrock-50-hf-power-amp-kit.html
>
>Any suggestions?
>
>73, Josh KD7HGL
>
>
>

1217. RE: [UHFSDR] Hardrock50 with UHFSDR

Yahoo group: UHFSDR
Date: 2012-09-12 01:04:42 UTC
From: MIKE DURKIN
Topic: 1211 Message: 1217

I dont see it ... just a 500mW to 5W and the 500mW to 50W amp ....

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Tue, 11 Sep 2012 16:36:44 -0700
Subject: Re: [UHFSDR] Hardrock50 with UHFSDR

They have just come out with a driver
board for the 50W amp that will work with 50mW. Available from
the same source.

Dave - WB6DHW

<http://wb6dhw.com>

On 9/11/2012 3:58 PM, MIKE DURKIN wrote:

yes ... but problem of low drive from uhfsdr = 50mW ...
hardrock takes min of 500mW

To: UHFSDR@yahoogroups.com

From: kd7hgl@...

Date: Tue, 11 Sep 2012 21:55:49 +0000

Subject: [UHFSDR] Hardrock50 with UHFSDR

I was curious if anyone had looked at combining
the Hardrock50 with the UHFSDR.

http://www.hobbypcb.com/amateur-radio/amateur-radio/hardrock-50-hf-power-amp-kit.html

Any suggestions?

73, Josh KD7HGL

1218. Re: [UHFSDR] Hardrock50 with UHFSDR

Yahoo group: UHFSDR
Date: 2012-09-12 04:11:08 UTC
From: Charles Nolin
Topic: 1211 Message: 1218

HI Mike,
Look at the Amateur Radio product list and it is top, on the list.
Try the refresh and see if it isn't there.
Chuck Nolin
WA6LTV/4

_____
From: MIKE DURKIN <Patriot121@...>
To: UHFSDR UHFSDR <uhfsdr@yahoogroups.com>
Sent: Tuesday, September 11, 2012 9:04 PM
Subject: RE: [UHFSDR] Hardrock50 with UHFSDR

I dont see it ... just a 500mW to 5W and the 500mW to 50W amp ....

_____
To: UHFSDR@yahoogroups.com
From: dave@...
Date: Tue, 11 Sep 2012 16:36:44 -0700
Subject: Re: [UHFSDR] Hardrock50 with UHFSDR

They have just come out with a driver board for the 50W amp that will work with 50mW. Available from the same source.

Dave - WB6DHW
<http://wb6dhw.com>

On 9/11/2012 3:58 PM, MIKE DURKIN wrote:

>
>
>yes ... but problem of low drive from uhfsdr = 50mW ... hardrock takes min of 500mW
>
>
>
>_____
>To: UHFSDR@yahoogroups.com
>From: kd7hgl@...
>Date: Tue, 11 Sep 2012 21:55:49 +0000
>Subject: [UHFSDR] Hardrock50 with UHFSDR
>
>
>
>
>I was curious if anyone had looked at combining
the Hardrock50 with the UHFSDR.
>
>http://www.hobbypcb.com/amateur-radio/amateur-radio/hardrock-50-hf-power-amp-kit.html

>
>Any suggestions?
>
>73, Josh KD7HGL
>
>
>

1219. RE: [UHFSDR] Hardrock50 with UHFSDR

Yahoo group: UHFSDR
Date: 2012-09-12 04:35:18 UTC
From: MIKE DURKIN
Topic: 1211 Message: 1219

still dont see a .05W to 50W amp ....

take a screen shot chuck ....

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: wa6ltv@...
Date: Tue, 11 Sep 2012 21:11:08 -0700
Subject: Re: [UHFSDR] Hardrock50 with UHFSDR

HI Mike,Look at the Amateur Radio product list and it is top, on the list. Try the refresh and see if it isn't there. Chuck NolinWA6LTV/4
From: MIKE DURKIN <Patriot121@...m>
To: UHFSDR UHFSDR <uhfsdr@yahoogroups.com>
Sent: Tuesday, September 11, 2012 9:04 PM
Subject: RE: [UHFSDR] Hardrock50 with UHFSDR

I dont see it ... just a 500mW to 5W and the 500mW to 50W amp ....

To: UHFSDR@yahoogroups.com
From: dave@wb6dhw.com
Date: Tue, 11 Sep 2012 16:36:44 -0700
Subject: Re: [UHFSDR] Hardrock50 with UHFSDR

They have just come out with a driver
board for the 50W amp that will work with 50mW. Available from
the same source.

Dave - WB6DHW

<http://wb6dhw.com>

On 9/11/2012 3:58 PM, MIKE DURKIN wrote:

yes ... but problem of low drive from uhfsdr = 50mW ...
hardrock takes min of 500mW

To: UHFSDR@yahoogroups.com

From: kd7hgl@...

Date: Tue, 11 Sep 2012 21:55:49 +0000

Subject: [UHFSDR] Hardrock50 with UHFSDR

I was curious if anyone had looked at combining
the Hardrock50 with the UHFSDR.

http://www.hobbypcb.com/amateur-radio/amateur-radio/hardrock-50-hf-power-amp-kit.html

Any suggestions?

73, Josh KD7HGL

1220. Re: [UHFSDR] Hardrock50 with UHFSDR

Yahoo group: UHFSDR
Date: 2012-09-12 04:40:16 UTC
From: Chuck Nolin
Topic: 1211 Message: 1220

Hi Mike,
I thought that little pre-driver was what you were looking for. I left off one of the zeros at the end.
It is 500mw not .50mw drive as you said....
Sorry.....
Chuck Nolin
WA6LTV/4

Sent from my iPad

On Sep 12, 2012, at 12:11 AM, Charles Nolin <wa6ltv@...> wrote:

> HI Mike,
> Look at the Amateur Radio product list and it is top, on the list.
> Try the refresh and see if it isn't there.
> Chuck Nolin
> WA6LTV/4
>
> From: MIKE DURKIN <Patriot121@...>
> To: UHFSDR UHFSDR <uhfsdr@yahoogroups.com>
> Sent: Tuesday, September 11, 2012 9:04 PM
> Subject: RE: [UHFSDR] Hardrock50 with UHFSDR
>
>
> I dont see it ... just a 500mW to 5W and the 500mW to 50W amp ....
>
> To: UHFSDR@yahoogroups.com
> From: dave@...
> Date: Tue, 11 Sep 2012 16:36:44 -0700
> Subject: Re: [UHFSDR] Hardrock50 with UHFSDR
>
>
>
> They have just come out with a driver board for the 50W amp that will work with 50mW. Available from the same source.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 9/11/2012 3:58 PM, MIKE DURKIN wrote:
>
>
> yes ... but problem of low drive from uhfsdr = 50mW ... hardrock takes min of 500mW
>
> To: UHFSDR@yahoogroups.com
> From: kd7hgl@gmail.com

> Date: Tue, 11 Sep 2012 21:55:49 +0000
> Subject: [UHFSDR] Hardrock50 with UHFSDR
>
>
>
>
> I was curious if anyone had looked at combining the Hardrock50 with the UHFSDR.
>
> http://www.hobbypcb.com/amateur-radio/amateur-radio/hardrock-50-hf-power-amp-kit.html
>
> Any suggestions?
>
> 73, Josh KD7HGL
>
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>

1221. RE: [UHFSDR] Hardrock50 with UHFSDR

Yahoo group: UHFSDR
Date: 2012-09-12 04:59:01 UTC
From: MIKE DURKIN
Topic: 1211 Message: 1221

ok .. figured that was what was going on ...

I asked if the designer would install a RD06hhf and drive to 3db saturation .....
wasn't interested in doin it ... thats ok .

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: wa6ltv@...
Date: Wed, 12 Sep 2012 00:40:16 -0400
Subject: Re: [UHFSDR] Hardrock50 with UHFSDR

Hi Mike,I thought that little pre-driver was what you were looking for. I left off one of the zeros at the end.It is 500mw not .50mw drive as you said....Sorry.....Chuck Nolin WA6LTV/4
Sent from my iPad
On Sep 12, 2012, at 12:11 AM, Charles Nolin <wa6ltv@...> wrote:

HI Mike,Look at the Amateur Radio product list and it is top, on the list. Try the refresh and see if it isn't there. Chuck NolinWA6LTV/4
From: MIKE DURKIN <Patriot121@...>
To: UHFSDR UHFSDR <uhfsdr@yahoogroups.com>
Sent: Tuesday, September 11, 2012 9:04 PM
Subject: RE: [UHFSDR] Hardrock50 with UHFSDR

I dont see it ... just a 500mW to 5W and the 500mW to 50W amp ....

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Tue, 11 Sep 2012 16:36:44 -0700
Subject: Re: [UHFSDR] Hardrock50 with UHFSDR

They have just come out with a driver
board for the 50W amp that will work with 50mW. Available from
the same source.

Dave - WB6DHW

<http://wb6dhw.com>

On 9/11/2012 3:58 PM, MIKE DURKIN wrote:

yes ... but problem of low drive from uhfsdr = 50mW ...
hardrock takes min of 500mW

To: UHFSDR@yahoogroups.com

From: kd7hgl@gmail.com

Date: Tue, 11 Sep 2012 21:55:49 +0000

Subject: [UHFSDR] Hardrock50 with UHFSDR

I was curious if anyone had looked at combining
the Hardrock50 with the UHFSDR.

http://www.hobbypcb.com/amateur-radio/amateur-radio/hardrock-50-hf-power-amp-kit.html

Any suggestions?

73, Josh KD7HGL

=

1222. ghpsdr3-alex dspserver

Yahoo group: UHFSDR
Date: 2012-09-13 01:20:01 UTC
From: MIKE DURKIN
Topic: 1222 Message: 1222

So who can connect to my dspserver? Im running ghpsdr3-alex ... and looks like the portforward issue is resolved ...

Mike KC7NOA

1223. Snap, Krackle, and Pop

Yahoo group: UHFSDR
Date: 2012-09-13 04:24:13 UTC
From: rhillard@austin.rr.com
Topic: 1223 Message: 1223

After about ten minutes of power-on, I start hearing snap, krackle, and pop noise in the audio.

Using a scope, I traced it to the output of Q1/input to U10A. It appears that one of these devices becomes noisy after it warms up; I suspect Q1, a MMBT4401 transistor. I have some on order.

Has anyone else experienced this; if so what did you find the problem to be?

Bob WA6UFQ

1224. Re: [UHFSDR] ghpsdr3-alex dspserver

Yahoo group: UHFSDR
Date: 2012-09-13 05:04:07 UTC
From: Oliver Goldenstein
Topic: 1222 Message: 1224

was me yesterday. hat was it?
73 Oliver
Am 13.09.2012 03:20 schrieb "MIKE DURKIN" <Patriot121@...>:

>
>
> So who can connect to my dspserver? Im running ghpsdr3-alex ... and looks
> like the portforward issue is resolved ...
>
> Mike KC7NOA
>
>
>

1225. RE: [UHFSDR] ghpsdr3-alex dspserver

Yahoo group: UHFSDR
Date: 2012-09-13 05:13:29 UTC
From: MIKE DURKIN
Topic: 1222 Message: 1225

probably not ... was working for just a few hours thanks to Andrea Montefusco - he shown me the way ....

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: oliver.goldenstein@...
Date: Thu, 13 Sep 2012 05:04:07 +0000
Subject: Re: [UHFSDR] ghpsdr3-alex dspserver

was me yesterday. hat was it?

73 Oliver
Am 13.09.2012 03:20 schrieb "MIKE DURKIN" <Patriot121@...>:

So who can connect to my dspserver? Im running ghpsdr3-alex ... and looks like the portforward issue is resolved ...

Mike KC7NOA

1226. RE: [UHFSDR] ghpsdr3-alex dspserver

Yahoo group: UHFSDR
Date: 2012-09-13 06:06:48 UTC
From: Oliver Goldenstein
Topic: 1222 Message: 1226

Mike i meant succescully connecting....
Am 13.09.2012 07:13 schrieb "MIKE DURKIN" <Patriot121@...>:

>
>
> probably not ... was working for just a few hours thanks to Andrea
> Montefusco - he shown me the way ....
>
> Mike KC7NOA
>
> ----------
> To: UHFSDR@yahoogroups.com
> From: oliver.goldenstein@...
> Date: Thu, 13 Sep 2012 05:04:07 +0000
> Subject: Re: [UHFSDR] ghpsdr3-alex dspserver
>
>
>
> was me yesterday. hat was it?
> 73 Oliver
> Am 13.09.2012 03:20 schrieb "MIKE DURKIN" <Patriot121@...>:
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> like the portforward issue is resolved ...
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> Mike KC7NOA
>
>
>
>
>
>
>

1227. RE: [UHFSDR] ghpsdr3-alex dspserver

Yahoo group: UHFSDR
Date: 2012-09-13 13:27:16 UTC
From: MIKE DURKIN
Topic: 1222 Message: 1227

Oh ... ok, must be the time difference ... interacting with people 180° or so from me on the planet is giving me problems ....

Its why I loaded a GMT clock on my phone - so I don't call the inlaws at 4am(they live just out side of London)

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: oliver.goldenstein@...
Date: Thu, 13 Sep 2012 06:06:48 +0000
Subject: RE: [UHFSDR] ghpsdr3-alex dspserver

Mike i meant succescully connecting....

Am 13.09.2012 07:13 schrieb "MIKE DURKIN" <Patriot121@...>:

probably not ... was working for just a few hours thanks to Andrea Montefusco - he shown me the way ....

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To: UHFSDR@yahoogroups.com

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Date: Thu, 13 Sep 2012 05:04:07 +0000
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So who can connect to my dspserver? Im running ghpsdr3-alex ... and looks like the portforward issue is resolved ...

Mike KC7NOA

1228. Raspberry PI

Yahoo group: UHFSDR
Date: 2012-09-15 20:34:00 UTC
From: brainerdd
Topic: 1228 Message: 1228

I just ordered a $35 Raspberry PI from Newark. It has been shipped.
The more I investigate it, the more impressed I am. I have the following in mind(my need more then 1)
RMS Winlink Gateway
Echo LInk/IRLP Link

The most ambitious idea is for a back end to the UHFSDR. The auxillary socket on the PI has I2C and GPIO pins plus high level command support for both is available for Python(I will have to learn that, but looks very similar to C). There is an example of it driving a 16 X 2 LCD panel using some of the GPIO pins. It will also need a USB soundcard as the board has no audio input. Now I need some light weight Linux SDR programs.

Dave - WB6DHW
<http://wb6dhw.com>

1229. Re: Raspberry PI

Yahoo group: UHFSDR
Date: 2012-09-15 22:53:42 UTC
From: Hank
Topic: 1228 Message: 1229

Dave,

I picked up 2 of them. I have one hooked up as a media server to my television running OpenElec/XMBC. The other is on my bench next to my UHFSDR. Let me know how it goes for you. I think a 7 to 10" touch screen would be an excellent front end for this but your LCD idea would be much cheaper. For its size and price it is remarkably fast running as a media server. Unfortunatley I think the USB is only 2.0, but the neat thing is you can actually power the Pi from the USB port. For the radio, if it only has to handle the frequencyj control, band switching, and display with an off board DAC for audio it might work. More than that I am not sure.

Hank
WZ3HMT

--- In UHFSDR@yahoogroups.com, "brainerdd" <dave@...> wrote:
>
> I just ordered a $35 Raspberry PI from Newark. It has been shipped.
> The more I investigate it, the more impressed I am. I have the following in mind(my need more then 1)
> RMS Winlink Gateway
> Echo LInk/IRLP Link
>
> The most ambitious idea is for a back end to the UHFSDR. The auxillary socket on the PI has I2C and GPIO pins plus high level command support for both is available for Python(I will have to learn that, but looks very similar to C). There is an example of it driving a 16 X 2 LCD panel using some of the GPIO pins. It will also need a USB soundcard as the board has no audio input. Now I need some light weight Linux SDR programs.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>

1230. Re: [UHFSDR] Re: Raspberry PI

Yahoo group: UHFSDR
Date: 2012-09-16 00:20:35 UTC
From: Sid Boyce
Topic: 1228 Message: 1230

I power my Raspberry Pi from a 3A P.S adjusted for 4.97V measured on board the Pi.
It's recommended not to run it from a USB port on a PC which may not deliver the 700mA required or near +5V. I can't find the page at present but I've seen it on the Raspberry Pi forum I am subscribed to.

The Rev 1 board has 2 polyfuses which have been shorted out with 0 ohm resistors on the Rev 2 boards, that's an attempt to make the USB stable.

I have shorted out polyfuses F1 and F2 on my Rev 1 board.

If I overclock to 855 MHz it freezes anywhere from immediately to several hours so I have only been able to run mine without freezing at 700MHz.

USB support is poor even at 700MHz.

Mine freezes with 5 devices connected - a Keyboard, Mouse, SB Live! 24 USB sound card, Gigabit Ethernet dongle and a RTL-SDR TV dongle on a powered USB hub of the same type that Maplin UK supplies with their Raspberry Pi bundle. Theirs is the 4-port and mine is the 7-port.

Removing the RTL-SDR dongle has made it stable.

Sound is still a problem which probably is associated with pulseaudio. When playing a wav file, pulseaudio does not show either card with the "m" (writeable) flag set.

Guys have recommended the XBMC distribution but I need pulseaudio for SDR programs such as QtRadio from the ghpsdr3-alex project.

```
root@pisces:/usr/share/sounds/alsa# aplay -dhw:1 Noise.wav
Playing WAVE 'Noise.wav' : Signed 16 bit Little Endian, Rate 48000 Hz, Mono
root@pisces:/usr/share/sounds/alsa# fuser -v /dev/snd/*
USER PID ACCESS COMMAND
/dev/snd/controlC0: lancelot 2702 F.... pulseaudio
/dev/snd/controlC1: lancelot 2702 F.... pulseaudio
/dev/snd/pcmC0D0p: lancelot 2702 F.... pulseaudio
/dev/snd/timer: lancelot 2702 f.... pulseaudio
```

None of the devices emit sound, alsamixer has the volume set to 100%.

```
sudo amixer cset numid=3
```

Substituting <n> for the desired mode: 0=auto, 1=headphones, 2=hdmi. For example, to force the Raspberry Pi to use the analog output:

```
sudo amixer cset numid=3 1
```

Leif has released Linrad 03.44 which is supposed to work but I
haven't tried it yet.

At one stage I had sound in QtRadio working after a fashion, no
sound as it was running but when I clicked Disconnect and the
waterfall and spectrum stopped, perfect HMDI sound came from it
until the disconnect finally happened.

I think that was with the debian wheezy distro, I'm now running the
raspbian pisces distro which is a version of debian.

http://napan.ca/ghpsdr3/index.php/QtRadio_Installation#Installing_ghpsdr3-alex_on_Raspberry_Pi
for more info.
73 ... Sid.

On 15/09/12 23:53, Hank wrote:
>
> Dave,
>
> I picked up 2 of them. I have one hooked up as a media server to my
> television running OpenElec/XMBC. The other is on my bench next to my
> UHFSDR. Let me know how it goes for you. I think a 7 to 10" touch
> screen would be an excellent front end for this but your LCD idea
> would be much cheaper. For its size and price it is remarkably fast
> running as a media server. Unfortunatley I think the USB is only 2.0,
> but the neat thing is you can actually power the Pi from the USB port.
> For the radio, if it only has to handle the frequencyj control, band
> switching, and display with an off board DAC for audio it might work.
> More than that I am not sure.
>
> Hank
> WZ3HMT
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
> "brainerdd" <dave@...> wrote:
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> > I just ordered a $35 Raspberry PI from Newark. It has been shipped.
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> > RMS Winlink Gateway
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> >
> > The most ambitious idea is for a back end to the UHFSDR. The
> auxillary socket on the PI has I2C and GPIO pins plus high level
> command support for both is available for Python(I will have to learn
> that, but looks very similar to C). There is an example of it driving
> a 16 X 2 LCD panel using some of the GPIO pins. It will also need a
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> >
> > Dave - WB6DHW

> > <http://wb6dhw.com>
> >
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1231. Re: Raspberry PI

Yahoo group: UHFSDR
Date: 2012-09-16 00:50:59 UTC
From: Hank
Topic: 1228 Message: 1231

Sid,

Your right, a dedicated power supply is probably always better. Links on power here.

http://elinux.org/RPi_Hardware_Basic_Setup#Power_Supply

and

http://elinux.org/Rpi_Hardware#Power

If you get the required 5V at correct current the USB should be fine as in the case of by Samsung TV that powers one of the Pi's for the media center. The XMBC as a media center is interesting as you can control the application running on the Pi via the Tv remote. Now the the 46" samsung would be a hell of an Panadapter display! If you could get the audio out through the HMDI port that would be interesting.

The other Pi that I am comtemplating with the UHFSDR is on a 5V wall wart on my radio bench.

Thanks for the links to the QtRadio on the Pi. Interesting reading as I had not seen that yet. You are way further along with your Pi than I am. Keep the good information coming.

Thanks,

Hank
WZ3HHMT

--- In UHFSDR@yahoogroups.com, Sid Boyce <sboyce@...> wrote:
>
> I power my Raspberry Pi from a 3A P.S adjusted for 4.97V measured on
> board the Pi.
> It's recommended not to run it from a USB port on a PC which may not
> deliver the 700mA required or near +5V. I can't find the page at present
> but I've seen it on the Raspberry Pi forum I am subscribed to.
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> resistors on the Rev 2 boards, that's an attempt to make the USB stable.
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> I have shorted out polyfuses F1 and F2 on my Rev 1 board.
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> several hours so I have only been able to run mine without freezing at
> 700MHz.
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> Mine freezes with 5 devices connected - a Keyboard, Mouse, SB Live! 24

> USB sound card, Gigabit Ethernet dongle and a RTL-SDR TV dongle on a
> powered USB hub of the same type that Maplin UK supplies with their
> Raspberry Pi bundle. Theirs is the 4-port and mine is the 7-port.
>
> Removing the RTL-SDR dongle has made it stable.
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> Sound is still a problem which probably is associated with pulseaudio.
> When playing a wav file, pulseaudio does not show either card with the
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> Playing WAVE 'Noise.wav' : Signed 16 bit Little Endian, Rate 48000 Hz, Mono
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> USER PID ACCESS COMMAND
> /dev/snd/controlC0: lancelot 2702 F.... pulseaudio
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>
> None of the devices emit sound, alsamixer has the volume set to 100%.
>
> sudo amixer cset numid=3
>
> Substituting <n> for the desired mode: 0=auto, 1=headphones, 2=hdmi. For
> example, to force the Raspberry Pi to use the analog output:
>
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> Leif has released Linrad 03.44 which is supposed to work but I
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> I think that was with the debian wheezy distro, I'm now running the
> raspbian pisces distro which is a version of debian.
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> http://napan.ca/ghpsdr3/index.php/QtRadio_Installation#Installing_ghpsdr3-alex_on_Raspbe
rry_Pi
> for more info.
> 73 ... Sid.
>
>
>
> On 15/09/12 23:53, Hank wrote:

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> Microsoft Windows Free Zone - Linux used for all Computing Tasks
>

1232. RE: [UHFSDR] Re: Raspberry PI

Yahoo group: UHFSDR
Date: 2012-09-16 04:12:51 UTC
From: MIKE DURKIN
Topic: 1228 Message: 1232

Does the Pi run softrock & dspserver ok?

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: sboyce@...
Date: Sun, 16 Sep 2012 01:20:35 +0100
Subject: Re: [UHFSDR] Re: Raspberry PI

I power my Raspberry Pi from a 3A P.S
adjusted for 4.97V measured on board the Pi.

It's recommended not to run it from a USB port on a PC which may not deliver the 700mA required or near +5V. I can't find the page at present but I've seen it on the Raspberry Pi forum I am subscribed to.

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```
root@pisces:/usr/share/sounds/alsa# aplay -dhw:1 Noise.wav

Playing WAVE 'Noise.wav' : Signed 16 bit Little Endian, Rate 48000
Hz, Mono
```

root@pisces:/usr/share/sounds/alsa# fuser -v /dev/snd/*

USER PID ACCESS COMMAND

/dev/snd/controlC0: lancelot 2702 F.... pulseaudio

/dev/snd/controlC1: lancelot 2702 F.... pulseaudio

/dev/snd/pcmC0D0p: lancelot 2702 F.... pulseaudio

/dev/snd/timer: lancelot 2702 f.... pulseaudio

None of the devices emit sound, alsamixer has the volume set to
100%.

sudo amixer cset numid=3

Substituting <n> for the desired mode: 0=auto,
1=headphones, 2=hdmi. For example, to force the Raspberry Pi to
use the analog output:

sudo amixer cset numid=3 1

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I haven't tried it yet.

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no sound as it was running but when I clicked Disconnect and
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http://napan.ca/ghpsdr3/index.php/QtRadio_Installation#Installing_ghpsdr3-alex_on_Raspberry_Pi
for more info.

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Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1233. Re: [UHFSDR] Re: Raspberry PI

Yahoo group: UHFSDR
Date: 2012-09-16 08:32:24 UTC
From: Sid Boyce
Topic: 1228 Message: 1233

Hi Mike,
I had the servers running OK but now I'm testing the HiQSDR at 960Ksps
which the Pi can't handle.
73 ... Sid.

On 16/09/12 05:12, MIKE DURKIN wrote:
>
> Does the Pi run softrock & dspserver ok?
>
> Mike KC7NOA
>
> ---
> To: UHFSDR@yahoogroups.com
> From: sboyce@...
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> On 15/09/12 23:53, Hank wrote:
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1234. Re: [UHFSDR] Re: Raspberry PI

Yahoo group: UHFSDR
Date: 2012-09-16 08:34:41 UTC
From: Sid Boyce
Topic: 1228 Message: 1234

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1235. Re: Raspberry PI

Yahoo group: UHFSDR
Date: 2012-09-16 14:13:05 UTC
From: Hank
Topic: 1228 Message: 1235

Sid,

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1236. RE: [UHFSDR] Re: Raspberry PI

Yahoo group: UHFSDR
Date: 2012-09-16 15:27:27 UTC
From: MIKE DURKIN
Topic: 1228 Message: 1236

I plan on using a bunch of lm7805's on a 12v source ...

One for the RaspI, two for the hub ....

Three to get ready .....

Oh ... that's a different thought.

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: hank@plastekgroup.com
Date: Sun, 16 Sep 2012 14:13:05 +0000
Subject: [UHFSDR] Re: Raspberry PI

Sid,

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1237. Re: [UHFSDR] Re: Raspberry PI

Yahoo group: UHFSDR
Date: 2012-09-16 21:12:12 UTC
From: Sid Boyce
Topic: 1228 Message: 1237

Powering the Raspberry Pi from a USB port or hub is not recommended as the voltage reaching the Pi is hardly likely to be near +5V @ 700mA because of the drop in the thin USB cable.

The power getting to the Pi has an impact on the USB subsystem irrespective of whether there is a powered hub with the external devices connected to it.

From what I have experienced, +5.17V at the Pi and using a powered hub only a maximum of 4 devices can be connected, adding a 5th. causes the Pi to hang. That is with polyfuses F1 and F2 shorted out.
73 ... SId.

On 16/09/12 15:13, Hank wrote:
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> Sid,
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> I am confused. I am referring to powering the Pi through its USB and
> not the opposite of powering external USB devices from the Pi's USB
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1238. Re: [UHFSDR] Re: Raspberry PI

Yahoo group: UHFSDR
Date: 2012-09-16 21:27:57 UTC
From: Sid Boyce
Topic: 1228 Message: 1238

Hi Mike,
The first hub I tried was supplied from a +5V P.S delivering +5.15V @ 5A
shared with the Pandaboard.

The second hub I am using has it's own +5V 2A supply - +5.16V measured
at the hub.

I can try with the hub connected to a +5V 3A supply.
73 ... Sid.

On 16/09/12 16:27, MIKE DURKIN wrote:
>
> I plan on using a bunch of lm7805's on a 12v source ...
>
> One for the RaspI, two for the hub ....
>
> Three to get ready .....
>
> Oh ... that's a different thought.
>
> Mike KC7NOA
>
> ---
> To: UHFSDR@yahoogroups.com
> From: hank@...
> Date: Sun, 16 Sep 2012 14:13:05 +0000
> Subject: [UHFSDR] Re: Raspberry PI
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1239. Re: [UHFSDR] Re: Raspberry PI

Yahoo group: UHFSDR
Date: 2012-09-16 21:45:37 UTC
From: Sid Boyce
Topic: 1228 Message: 1239

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On 16/09/12 22:27, Sid Boyce wrote:
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>> > > > root@pisces:/usr/share/sounds/alsa# fuser -v /dev/snd/*
>> > > > USER PID ACCESS COMMAND
>> > > > /dev/snd/controlC0: lancelot 2702 F.... pulseaudio
>> > > > /dev/snd/controlC1: lancelot 2702 F.... pulseaudio
>> > > > /dev/snd/pcmC0D0p: lancelot 2702 F.... pulseaudio
>> > > > /dev/snd/timer: lancelot 2702 f.... pulseaudio

>> > > >
>> > > > None of the devices emit sound, alsamixer has the volume set to
>> 100%.
>> > > >
>> > > > sudo amixer cset numid=3
>> > > >
>> > > > Substituting <n> for the desired mode: 0=auto, 1=headphones,
>> 2=hdmi.
>> > > For
>> > > > example, to force the Raspberry Pi to use the analog output:
>> > > >
>> > > > sudo amixer cset numid=3 1
>> > > >
>> > > > Leif has released Linrad 03.44 which is supposed to work but I
>> > > > haven't tried it yet.
>> > > >
>> > > > At one stage I had sound in QtRadio working after a fashion, no
>> > > > sound as it was running but when I clicked Disconnect and the
>> > > > waterfall and spectrum stopped, perfect HMDI sound came from it
>> > > > until the disconnect finally happened.
>> > > >
>> > > > I think that was with the debian wheezy distro, I'm now running the
>> > > > raspbian pisces distro which is a version of debian.
>> > > >
>> > > >
>> > >
>> http://napan.ca/ghpsdr3/index.php/QtRadio_Installation#Installing_ghpsdr3-alex_on_Raspb
erry_Pi
>> > > > for more info.
>> > > > 73 ... Sid.
>> > > >
>> > > >
>> > > >
>> > > > On 15/09/12 23:53, Hank wrote:
>> > > > >
>> > > > > Dave,
>> > > > >
>> > > > > I picked up 2 of them. I have one hooked up as a media server
>> to my
>> > > > > television running OpenElec/XMBC. The other is on my bench
>> next to my
>> > > > > UHFSDR. Let me know how it goes for you. I think a 7 to 10" touch
>> > > > > screen would be an excellent front end for this but your LCD idea
>> > > > > would be much cheaper. For its size and price it is
>> remarkably fast
>> > > > > running as a media server. Unfortunatley I think the USB is
>> only 2.0,
>> > > > > but the neat thing is you can actually power the Pi from the USB
>> > > port.
>> > > > > For the radio, if it only has to handle the frequencyj

>> control, band
>> > > > > switching, and display with an off board DAC for audio it
>> might work.
>> > > > > More than that I am not sure.
>> > > > >
>> > > > > Hank
>> > > > > WZ3HMT
>> > > > >
>> > > > > --- In UHFSDR@yahoogroups.com
>> <mailto:UHFSDR%40yahoogroups.com> <mailto:UHFSDR%40yahoogroups.com>
>> > > <mailto:UHFSDR%40yahoogroups.com>,
>> > > > > "brainerdd" <dave@> wrote:
>> > > > > >
>> > > > > > I just ordered a $35 Raspberry PI from Newark. It has been
>> shipped.
>> > > > > > The more I investigate it, the more impressed I am. I have the
>> > > > > following in mind(my need more then 1)
>> > > > > > RMS Winlink Gateway
>> > > > > > Echo LInk/IRLP Link
>> > > > > >
>> > > > > > The most ambitious idea is for a back end to the UHFSDR. The
>> > > > > auxillary socket on the PI has I2C and GPIO pins plus high level
>> > > > > command support for both is available for Python(I will have
>> to learn
>> > > > > that, but looks very similar to C). There is an example of it
>> driving
>> > > > > a 16 X 2 LCD panel using some of the GPIO pins. It will also
>> need a
>> > > > > USB soundcard as the board has no audio input. Now I need
>> some light
>> > > > > weight Linux SDR programs.
>> > > > > >
>> > > > > > Dave - WB6DHW
>> > > > > > <http://wb6dhw.com>
>> > > > > >
>> > > > >
>> > > > >
>> > > >
>> > > >
>> > > > --
>> > > > Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
>> > > > Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
>> > > > Senior Staff Specialist, Cricket Coach
>> > > > Microsoft Windows Free Zone - Linux used for all Computing Tasks
>> > > >
>> > >
>> > >
>> >
>> >
>> > --

>> > Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
>> > Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
>> > Senior Staff Specialist, Cricket Coach
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--
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Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1240. Add on to UHFSDR

Yahoo group: UHFSDR
Date: 2012-09-25 17:32:33 UTC
From: MIKE DURKIN
Topic: 1240 Message: 1240

Hello all ...

Im wondering how much more power can be drawn from the UHFSDR from the 5v and 3v regulators ....
Im thinking of the possibility of adding a UBW32 like minimum populated board .... for Si570 control and BPF control .... of the BPF filter Dave offers ....

Mike KC7NOA

1241. Re: [UHFSDR] Add on to UHFSDR

Yahoo group: UHFSDR
Date: 2012-09-25 19:11:44 UTC
From: Dave
Topic: 1240 Message: 1241

Mike:
The 7805 is rated for 1 Amp and the 3.3V regulator is rated for 250 ma. Don't remember what the whole board takes. The Si570 takes about 100mA at 3.3V.

Dave - WB6DHW
<http://wb6dhw.com>

On 9/25/2012 10:32 AM, MIKE DURKIN wrote:
>
> Hello all ...
>
> Im wondering how much more power can be drawn from the UHFSDR from the
> 5v and 3v regulators ....
> Im thinking of the possibility of adding a UBW32 like minimum
> populated board .... for Si570 control and BPF control .... of the BPF
> filter Dave offers ....
>
> Mike KC7NOA
>
>

1242. Not available the next 2 weeks

Yahoo group: UHFSDR
Date: 2012-09-25 19:17:13 UTC
From: Dave
Topic: 1240 Message: 1242

I will be manning one of the road closure barricades for one of the large fires we have around here for the next 2 weeks. Couldn't pass up the offer of $30/hour with 12 hour shifts for 2 weeks! I will not have internet and probably no cell phone coverage(will have Ham Radio!). I will also not be able to ship orders while away.

Dave - WB6DHW
<http://wb6dhw.com>

1243. Re: [UHFSDR] Not available the next 2 weeks

Yahoo group: UHFSDR
Date: 2012-09-25 19:54:55 UTC
From: Jim Sanford
Topic: 1240 Message: 1243

Good luck and stay safe.
Jim
wb4gcs@...

On 9/25/2012 3:17 PM, Dave wrote:
>
> I will be manning one of the road closure barricades for one of the
> large fires we have around here for the next 2 weeks. Couldn't pass up
> the offer of $30/hour with 12 hour shifts for 2 weeks! I will not have
> internet and probably no cell phone coverage(will have Ham Radio!). I
> will also not be able to ship orders while away.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
>

1244. Re: [UHFSDR] Add on to UHFSDR

Yahoo group: UHFSDR
Date: 2012-09-25 21:01:00 UTC
From: Sid Boyce
Topic: 1240 Message: 1244

I found the 7805 was running very hot so I moved it off board.

At first I used the 7805 on a largish heatsink with a CPU fan.

I am using a LM338 5A adjustable regulator on a largish heatsink I had
but a CPU heatsink would have done the job. I backed it up with a CPU
fan regulated by a LM317T for silent running.

With 5A it powers the UHFSDR + SDR-Widget and gives room for add-ons.
+13.8V --> LM338 --> UHFSDR/WIdget.

The LM338 circuit is straight off the datasheet.

BTW the UBW16 and later the UBW32 was initially run from the on-board 7805.
73 ... Sid.

On 25/09/12 18:32, MIKE DURKIN wrote:
>
> Hello all ...
>
> Im wondering how much more power can be drawn from the UHFSDR from the
> 5v and 3v regulators ....
> Im thinking of the possibility of adding a UBW32 like minimum
> populated board .... for Si570 control and BPF control .... of the BPF
> filter Dave offers ....
>
> Mike KC7NOA
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1245. RE: [UHFSDR] Add on to UHFSDR

Yahoo group: UHFSDR
Date: 2012-09-25 23:51:05 UTC
From: MIKE DURKIN
Topic: 1240 Message: 1245

I have some pic32mc564h on a 1" pcb with headers all around. I was trying to see what us the true minimum parts needed to use Alex Lee version of PE0FKO 's firmware .... but he used a UBW32 .. at 40$.

Since the UHFSDR has 3.3v & 5v already .... and you don't really need all the switches and headers that comes on a UBW32... get my thinking ...

I got the pcb for 2$ and the pic32's for 5$ each ... need two deferent clocks and some caps that I know for sure...

To: UHFSDR@yahoogroups.com
From: sboyce@...
Date: Tue, 25 Sep 2012 22:01:00 +0100
Subject: Re: [UHFSDR] Add on to UHFSDR

I found the 7805 was running very hot
so I moved it off board.

At first I used the 7805 on a largish heatsink with a CPU fan.

I am using a LM338 5A adjustable regulator on a largish heatsink I
had but a CPU heatsink would have done the job. I backed it up
with a CPU fan regulated by a LM317T for silent running.

With 5A it powers the UHFSDR + SDR-Widget and gives room for
add-ons.

+13.8V --> LM338 --> UHFSDR/WIdget.

The LM338 circuit is straight off the datasheet.

BTW the UBW16 and later the UBW32 was initially run from the
on-board 7805.

73 ... Sid.

On 25/09/12 18:32, MIKE DURKIN wrote:

Hello all ...

Im wondering how much more power can be drawn from the
UHFSDR from the 5v and 3v regulators ....

Im thinking of the possibility of adding a UBW32 like
minimum populated board .... for Si570 control and BPF
control .... of the BPF filter Dave offers ....

Mike KC7NOA

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1246. RE: [UHFSDR] Not available the next 2 weeks

Yahoo group: UHFSDR
Date: 2012-09-26 02:39:09 UTC
From: MIKE DURKIN
Topic: 1240 Message: 1246

Dang ... where do I apply?

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: wb4gcs@...
Date: Tue, 25 Sep 2012 15:54:55 -0400
Subject: Re: [UHFSDR] Not available the next 2 weeks

Good luck and stay safe.

Jim

wb4gcs@...

On 9/25/2012 3:17 PM, Dave wrote:

I will be manning one of the road closure barricades for
one of the

large fires we have around here for the next 2 weeks.
Couldn't pass up

the offer of $30/hour with 12 hour shifts for 2 weeks! I
will not have

internet and probably no cell phone coverage(will have Ham
Radio!). I

will also not be able to ship orders while away.

Dave - WB6DHW

<http://wb6dhw.com>

1247. Re: [UHFSDR] Not available the next 2 weeks

Yahoo group: UHFSDR
Date: 2012-09-26 02:59:08 UTC
From: Dave
Topic: 1240 Message: 1247

You have to be a member of either the Idaho County Search and Rescue
or the Sheriff Possie. We provide communications for the search and
rescue, so became members for the protections the county could provide.
Probably because they have already done background checks and we have
Sheriff dept. ID's. Will get paid by the Forestry dept. Should pay for
our planned 2014 trip and booth at Dayton!

Dave - WB6DHW
<http://wb6dhw.com>

On 9/25/2012 7:39 PM, MIKE DURKIN wrote:
>
> Dang ... where do I apply?
>
> Mike KC7NOA
>
> ---
> To: UHFSDR@yahoogroups.com
> From: wb4gcs@...
> Date: Tue, 25 Sep 2012 15:54:55 -0400
> Subject: Re: [UHFSDR] Not available the next 2 weeks
>
> Good luck and stay safe.
> Jim
> wb4gcs@... <mailto:wb4gcs@...>
>
> On 9/25/2012 3:17 PM, Dave wrote:
>
> I will be manning one of the road closure barricades for one of the
> large fires we have around here for the next 2 weeks. Couldn't
> pass up
> the offer of $30/hour with 12 hour shifts for 2 weeks! I will not
> have
> internet and probably no cell phone coverage(will have Ham Radio!). I
> will also not be able to ship orders while away.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
>
>
>
> <mailto:patriot121@...?subject=RE%3A%20%5BUHFSDR%5D%20Not%20available%20the%20next%202%20weeks>,___

1248. Re: [UHFSDR] Not available the next 2 weeks

Yahoo group: UHFSDR
Date: 2012-09-26 05:17:21 UTC
From: w9amr@aol.com
Topic: 1240 Message: 1248

Be safe Dave! I know you will. It is a great thing you are doing for the community.

Larry W9AMR

In a message dated 9/25/2012 10:59:21 P.M. Eastern Daylight Time, dave@... writes:

You have to be a member of either the Idaho County Search and Rescue or the Sheriff Possie. We provide communications for the search and rescue, so became members for the protections the county could provide. Probably because they have already done background checks and we have Sheriff dept. ID's. Will get paid by the Forestry dept. Should pay for our planned 2014 trip and booth at Dayton!

Dave - WB6DHW
<http://wb6dhw.com> (http://wb6dhw.com/)

On 9/25/2012 7:39 PM, MIKE DURKIN wrote:

Dang ... where do I apply?

Mike KC7NOA

_____
To: _UHFSDR@yahoogroups.com_ (mailto:UHFSDR@yahoogroups.com)
From: _wb4gcs@..._ (mailto:wb4gcs@amsat.org)
Date: Tue, 25 Sep 2012 15:54:55 -0400
Subject: Re: [UHFSDR] Not available the next 2 weeks

Good luck and stay safe.
Jim
wb4gcs@amsat.org (mailto:wb4gcs@...)

On 9/25/2012 3:17 PM, Dave wrote:

I will be manning one of the road closure barricades for one of the large fires we have around here for the next 2 weeks. Couldn't pass up the offer of $30/hour with 12 hour shifts for 2 weeks! I will not have internet and probably no cell phone coverage(will have Ham Radio!). I will also not be able to ship orders while away.

Dave - WB6DHW
<_http://wb6dhw.com_ (http://wb6dhw.com/) >

1249. Si570BAA 50$

Yahoo group: UHFSDR
Date: 2012-10-06 02:44:01 UTC
From: MIKE DURKIN
Topic: 1249 Message: 1249

Have a Si570BAA for sale ... 50$ ...
Get it for christmas ....

Mike KC7NOA

1250. phase and amplitude imbalance

Yahoo group: UHFSDR
Date: 2012-10-06 02:50:05 UTC
From: MIKE DURKIN
Topic: 1250 Message: 1250

Is there a program that can show what phase and amplitude imbalance levels are?

Mike KC7NOA

1251. Re: [UHFSDR] Si570BAA 50$

Yahoo group: UHFSDR
Date: 2012-10-06 03:09:30 UTC
From: Alan Hill
Topic: 1249 Message: 1251

That is a great deal. You can't buy one for less from the stores.
73,
Alan - W6ARH
On Oct 5, 2012 7:44 PM, "MIKE DURKIN" <Patriot121@...> wrote:

> **
>
>
> Have a Si570BAA for sale ... 50$ ...
> Get it for christmas ....
>
> Mike KC7NOA
>
>

1252. Re: [UHFSDR] Si570BAA 50$

Yahoo group: UHFSDR
Date: 2012-10-06 04:13:24 UTC
From: Dave
Topic: 1249 Message: 1252

The BAA is LVDS, 50ppm temp, and full range(1.4GHz) frequency.
Ordered in qty 1 from Silabs website is approx $100. Will work on UHFSDR.

Dave - WB6DHW
<http://wb6dhw.com>

On 10/5/2012 7:44 PM, MIKE DURKIN wrote:
>
> Have a Si570BAA for sale ... 50$ ...
> Get it for christmas ....
>
> Mike KC7NOA
>

1253. Re: [UHFSDR] phase and amplitude imbalance

Yahoo group: UHFSDR
Date: 2012-10-06 08:30:11 UTC
From: Ian
Topic: 1250 Message: 1253

Mike

SDR# shows a rough estimation of phase and amplitude imbalance in the title bar when Youssef's automatic IQ correction algorithm is enabled. It makes the assumption the error is not frequency dependant. This is mostly OK.

I guess you are looking for something more to make some firm measurements.

IanMIKE DURKIN <Patriot121@msn.com> wrote:Is there a program that can show what phase and amplitude imbalance levels are?

Mike KC7NOA

1254. Re: phase and amplitude imbalance

Yahoo group: UHFSDR
Date: 2012-10-06 12:35:52 UTC
From: JOS C
Topic: 1250 Message: 1254

--- In UHFSDR@yahoogroups.com, Ian <mm6dos@...> wrote:
>
> Mike
>
> SDR# shows a rough estimation of phase and amplitude imbalance in the title bar when Youssef's automatic IQ correction algorithm is enabled. Â It makes the assumption the error is not frequency dependant. Â This is mostly OK.
>
> I guess you are looking for something more to make some firm measurements.
>
> IanMIKE DURKIN <Patriot121@...> wrote:Is there a program that can show what phase and amplitude imbalance levels are?
>
> Mike KC7NOA
>
Mike,

I use ROCKY by VE3ENA this SDR program will graph both amplitude and phase errors.

Joe wa9cgz

1255. RE: [UHFSDR] phase and amplitude imbalance

Yahoo group: UHFSDR
Date: 2012-10-06 13:13:05 UTC
From: MIKE DURKIN
Topic: 1250 Message: 1255

Yea ... iv used that one .... floats around alot if there is no carrier to work against...

To: UHFSDR@yahoogroups.com
From: mm6dos@...
Date: Sat, 6 Oct 2012 09:30:11 +0100
Subject: Re: [UHFSDR] phase and amplitude imbalance

Mike
SDR# shows a rough estimation of phase and amplitude imbalance in the title bar when Youssef's automatic IQ correction algorithm is enabled. It makes the assumption the error is not frequency dependant. This is mostly OK.
I guess you are looking for something more to make some firm measurements.
Ian
MIKE DURKIN <Patriot121@...> wrote:

Is there a program that can show what phase and amplitude imbalance levels are?

Mike KC7NOA

1256. RE: [UHFSDR] phase and amplitude imbalance

Yahoo group: UHFSDR
Date: 2012-10-06 13:59:58 UTC
From: Ian
Topic: 1250 Message: 1256

It takes a little time for the algorithm to converge since it is essentially brute forcing the imbalance away.

Recently the algorithm was modified to only activate on the detection of a useful carrier above a certain threshold.

IanMIKE DURKIN <Patriot121@msn.com> wrote:Yea ... iv used that one .... floats around alot if there is no carrier to work against...

To: UHFSDR@yahoogroups.com
From: mm6dos@gmail.com
Date: Sat, 6 Oct 2012 09:30:11 +0100
Subject: Re: [UHFSDR] phase and amplitude imbalance

Mike

SDR# shows a rough estimation of phase and amplitude imbalance in the title bar when Youssef's automatic IQ correction algorithm is enabled. It makes the assumption the error is not frequency dependant. This is mostly OK.

I guess you are looking for something more to make some firm measurements.

Ian

MIKE DURKIN <Patriot121@msn.com> wrote:

Is there a program that can show what phase and amplitude imbalance levels are?

Mike KC7NOA

1257. Full Kit Costs

Yahoo group: UHFSDR
Date: 2012-10-08 01:14:20 UTC
From: The Silver Fox
Topic: 1257 Message: 1257

There have been a lot of inquiries so I hope folks will forgive the pseudo advertising. The current cost of the full UHFSDR kits is $204 for US customers and $208 for DX. The kit includes the performance enhancement chip. Payment is via paypal to my email address.

73,

Alan - W6ARH

Mobokits <http://mobokits.stormwarning.org/>
http://mobokits.stormwarning.org/

UHFSDR Full Kit <http://wb6dhw.com/For_Sale.html>
http://wb6dhw.com/For_Sale.html

1258. Re: [UHFSDR] Full Kit Costs

Yahoo group: UHFSDR
Date: 2012-10-08 01:26:42 UTC
From: Jim Sanford
Topic: 1257 Message: 1258

Alan:
Is this the low noise preamp, or something else? Might be interested in
an "upgrade".
thanks & 73,
jim
wb4gcs@...

On 10/7/2012 9:14 PM, The Silver Fox wrote:
>
> There have been a lot of inquiries so I hope folks will forgive the
> pseudo advertising. The current cost of the full UHFSDR kits is $204
> for US customers and $208 for DX. The kit includes the performance
> enhancement chip. Payment is via paypal to my email address.
>
> 73,
>
> Alan -- W6ARH
>
> Mobokits http://mobokits.stormwarning.org/
>
> UHFSDR Full Kit http://wb6dhw.com/For_Sale.html
>
>

1259. RE: [UHFSDR] Full Kit Costs

Yahoo group: UHFSDR
Date: 2012-10-08 01:43:20 UTC
From: The Silver Fox
Topic: 1257 Message: 1259
Attachments: 2 described; binary payloads are missing from this source WARC

Yes. It is the SPF5043Z MMIC low noise preamp. I sell the chip alone for $6 to US and $7 for DX.

73,

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Jim Sanford
Sent: Sunday, October 07, 2012 6:27 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Full Kit Costs

Alan:
Is this the low noise preamp, or something else? Might be interested in an "upgrade".
thanks & 73,
jim
wb4gcs@...

On 10/7/2012 9:14 PM, The Silver Fox wrote:

There have been a lot of inquiries so I hope folks will forgive the pseudo advertising. The current cost of the full UHFSDR kits is $204 for US customers and $208 for DX. The kit includes the performance enhancement chip. Payment is via paypal to my email address.

73,

Alan - W6ARH

Mobokits http://mobokits.stormwarning.org/

UHFSDR Full Kit http://wb6dhw.com/For_Sale.html

1260. RE: [UHFSDR] Full Kit Costs

Yahoo group: UHFSDR
Date: 2012-10-08 02:19:00 UTC
From: MIKE DURKIN
Topic: 1257 Message: 1260

Id like two ... does it need anything else?

To: UHFSDR@yahoogroups.com
From: alan.r.hill@...
Date: Sun, 7 Oct 2012 18:43:20 -0700
Subject: RE: [UHFSDR] Full Kit Costs

Yes. It is the SPF5043Z MMIC low noise preamp. I sell the chip alone for $6 to US and $7 for DX.
73,Alan – W6ARH From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Jim Sanford
Sent: Sunday, October 07, 2012 6:27 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Full Kit Costs Alan:
Is this the low noise preamp, or something else? Might be interested in an "upgrade".
thanks & 73,
jim
wb4gcs@...
On 10/7/2012 9:14 PM, The Silver Fox wrote: There have been a lot of inquiries so I hope folks will forgive the pseudo advertising. The current cost of the full UHFSDR kits is $204 for US customers and $208 for DX. The kit includes the performance enhancement chip. Payment is via paypal to my email address.73,Alan – W6ARH Mobokits http://mobokits.stormwarning.org/UHFSDR Full Kit http://wb6dhw.com/For_Sale.html

1261. RE: [UHFSDR] Full Kit Costs

Yahoo group: UHFSDR
Date: 2012-10-10 19:56:13 UTC
From: MIKE DURKIN
Topic: 1257 Message: 1261

ummm ... how can i get two ...?

To: UHFSDR@yahoogroups.com
From: alan.r.hill@...
Date: Sun, 7 Oct 2012 18:43:20 -0700
Subject: RE: [UHFSDR] Full Kit Costs

Yes. It is the SPF5043Z MMIC low noise preamp. I sell the chip alone for $6 to US and $7 for DX. 73,Alan – W6ARH From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Jim Sanford
Sent: Sunday, October 07, 2012 6:27 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Full Kit Costs Alan:
Is this the low noise preamp, or something else? Might be interested in an "upgrade".
thanks & 73,
jim
wb4gcs@... 10/7/2012 9:14 PM, The Silver Fox wrote: There have been a lot of inquiries so I hope folks will forgive the pseudo advertising. The current cost of the full UHFSDR kits is $204 for US customers and $208 for DX. The kit includes the performance enhancement chip. Payment is via paypal to my email address.73,Alan – W6ARH Mobokits http://mobokits.stormwarning.org/UHFSDR Full Kit http://wb6dhw.com/For_Sale.html

1262. RE: [UHFSDR] Full Kit Costs

Yahoo group: UHFSDR
Date: 2012-10-10 20:40:38 UTC
From: The Silver Fox
Topic: 1257 Message: 1262

$10 for two.

73,

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
MIKE DURKIN
Sent: Wednesday, October 10, 2012 12:56 PM
To: UHFSDR UHFSDR
Subject: RE: [UHFSDR] Full Kit Costs

ummm ... how can i get two ...?

To: UHFSDR@yahoogroups.com
From: alan.r.hill@...
Date: Sun, 7 Oct 2012 18:43:20 -0700
Subject: RE: [UHFSDR] Full Kit Costs

Yes. It is the SPF5043Z MMIC low noise preamp. I sell the chip alone for
$6 to US and $7 for DX.

73,

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
Jim Sanford
Sent: Sunday, October 07, 2012 6:27 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Full Kit Costs

Alan:
Is this the low noise preamp, or something else? Might be interested in an
"upgrade".
thanks & 73,
jim
wb4gcs@...

On 10/7/2012 9:14 PM, The Silver Fox wrote:

There have been a lot of inquiries so I hope folks will forgive the pseudo
advertising. The current cost of the full UHFSDR kits is $204 for US
customers and $208 for DX. The kit includes the performance enhancement
chip. Payment is via paypal to my email address.

73,

Alan - W6ARH

Mobokits http://mobokits.stormwarning.org/

UHFSDR Full Kit http://wb6dhw.com/For_Sale.html

1263. UHFSDR Construction Experience

Yahoo group: UHFSDR
Date: 2012-10-15 03:41:47 UTC
From: keestheham
Topic: 1263 Message: 1263

Finally had some time and put my first UHFSDR together.

Great little kit. I haven't powered it up yet but it's built and went together smoothly.

I only have 4 minor comments:

1)Instruction 157 says Install TI. It really should say install T1 (WBC2-1TL). The other little RF transformer (TC1-1-13M+) is for clock input isolation (as is the second SMA connector).

2)The dot for T1 is in the wrong place on the board. The little thing has 6 terminals and there are 6 pads ....but the center tap on the RF transformer needs to be toward the mixers where it picks up a ground. That puts the red dot towards the bottom.

3)D1 is one tiny diode and it is marked with a Cathode "bar", be sure and orient it correctly.

4)It works better to solder C10 before you mount the SMA connector and don't seat it all the way so it does not interfere with C10.

73 Kees K5BCQ

1264. Re: [UHFSDR] UHFSDR Construction Experience

Yahoo group: UHFSDR
Date: 2012-10-15 11:33:51 UTC
From: Sid Boyce
Topic: 1263 Message: 1264
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Kees,
A picture that's no doubt somewhere in the photos section. I've kept it for reference.
73 ... Sid.

On 15/10/12 04:41, keestheham wrote:
>
> Finally had some time and put my first UHFSDR together.
>
> Great little kit. I haven't powered it up yet but it's built and went
> together smoothly.
>
> I only have 4 minor comments:
>
> 1)Instruction 157 says Install TI. It really should say install T1
> (WBC2-1TL). The other little RF transformer (TC1-1-13M+) is for clock
> input isolation (as is the second SMA connector).
>
> 2)The dot for T1 is in the wrong place on the board. The little thing
> has 6 terminals and there are 6 pads ....but the center tap on the RF
> transformer needs to be toward the mixers where it picks up a ground.
> That puts the red dot towards the bottom.
>
> 3)D1 is one tiny diode and it is marked with a Cathode "bar", be sure
> and orient it correctly.
>
> 4)It works better to solder C10 before you mount the SMA connector and
> don't seat it all the way so it does not interfere with C10.
>
> 73 Kees K5BCQ
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1265. Re: [UHFSDR] UHFSDR Construction Experience

Yahoo group: UHFSDR
Date: 2012-10-15 12:14:08 UTC
From: Sid Boyce
Topic: 1263 Message: 1265

One other change I made was to remove the +5V regulator and power the board from a separate power supply 13.8V --> LM338 5A adjustable regulator mounted on a heatsink about the size of the one used for the K5BCQ 20W PA with an exhaust fan mounted on the heatsink.
73 ... Sid.

On 15/10/12 04:41, keestheham wrote:
>
> Finally had some time and put my first UHFSDR together.
>
> Great little kit. I haven't powered it up yet but it's built and went
> together smoothly.
>
> I only have 4 minor comments:
>
> 1)Instruction 157 says Install TI. It really should say install T1
> (WBC2-1TL). The other little RF transformer (TC1-1-13M+) is for clock
> input isolation (as is the second SMA connector).
>
> 2)The dot for T1 is in the wrong place on the board. The little thing
> has 6 terminals and there are 6 pads ....but the center tap on the RF
> transformer needs to be toward the mixers where it picks up a ground.
> That puts the red dot towards the bottom.
>
> 3)D1 is one tiny diode and it is marked with a Cathode "bar", be sure
> and orient it correctly.
>
> 4)It works better to solder C10 before you mount the SMA connector and
> don't seat it all the way so it does not interfere with C10.
>
> 73 Kees K5BCQ
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1266. RE: [UHFSDR] UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-10-16 16:14:28 UTC
From: MIKE DURKIN
Topic: 714 Message: 1266

1 more question before I try to drop r in...

Is the pin out the same?

Mike KC7NOA

BTY ... lots of 10mexamples activity here ..

From: patriot121@msn.com
To: alan.r.hill@...
Subject: RE: [UHFSDR] UHFSDR Sensitivity Improvement
Date: Fri, 12 Oct 2012 17:00:14 -0700

100nh ... wonder how critical that is ...
Possible to DIY something to work....

I don't think my MFJ259B can measure something like that ... not that I remember anyways..

Mike KC7NOA

From: alan.r.hill@...
To: Patriot121@...
Subject: FW: [UHFSDR] UHFSDR Sensitivity Improvement
Date: Fri, 12 Oct 2012 16:36:53 -0700

Mike, Here are the steps and results for the upgrade. Nothing else is needed.73,Alan – W6ARH From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Ed
Sent: Wednesday, February 22, 2012 1:15 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] UHFSDR Sensitivity Improvement Hello All you UHFSDR lovers,

I decided to do some further measurements of the MDS on my UHFSDR.

I started by measuring the UHFSDR unmodified in the following set up conditions:

Software: WRplus
PC: ASPIRE One Net book
Signal Generator: HP with additional Microwave attenuators.
Mode : CW
Frequency: 144.300 Mhz
Bandwidth: 500Hz
AGC:Off

The result for 1 dB signal above noise power : -133dBm.

I then decided to change U4 (BGA612) to a different type of MMIC, the SPF5043Z. This is a 50 Mhz to 4 Ghz part with high dynamic range. It has a lower noise figure and higher gain than the BGA612.

The mod was simple, remove the BGA612, install the SPF5043Z taking care to check the different orientation and replace R3 (120 ohm)with a 100nH Inductor.

The result for 1 dB signal above noise power : -145dBm

So if you want a super sensitive VHF/UHF front end, you got it !

Only possible down side is that the IC starts to degrade below 50 Mhz. It could still be adequate for the DC bands if you really must use the UHFSDR for that purpose.

What a remarkable little radio this is.

Regards

Ed GM3SBC

1267. T/R antenna switch

Yahoo group: UHFSDR
Date: 2012-10-16 20:20:41 UTC
From: Robert Lorenzini
Topic: 1267 Message: 1267

Can anyone suggest a suitable miniature antenna switchfor this project?
What are you using?

Bob - wd6dod

1268. Re: [UHFSDR] T/R antenna switch

Yahoo group: UHFSDR
Date: 2012-10-16 20:35:02 UTC
From: Sid Boyce
Topic: 1267 Message: 1268
Attachments: 1 described; binary payloads are missing from this source WARC

I used my own which is close to this one by Alex.
73 ... Sid.

On 16/10/12 21:20, Robert Lorenzini wrote:
>
> Can anyone suggest a suitable miniature antenna switchfor this project?
> What are you using?
>
> Bob - wd6dod
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1269. Re:Hi friend!

Yahoo group: UHFSDR
Date: 2012-10-18 13:15:53 UTC
From: Gareth Jones
Topic: 1269 Message: 1269

Hi friend! http://thehangarcafe.com/nbcnewsat12.php?ewID=78an2

1270. The UHFSDR

Yahoo group: UHFSDR
Date: 2012-10-19 22:19:32 UTC
From: Peter
Topic: 1270 Message: 1270

Hi there

I am thinking about getting and having a go at constructing a UHFSDR. But I have a few questions to ask before I start:

Does it receive and transmit anywhere between 1.75-700MHz or does it only do the amateur bands?

I have a 192KHz 24bit sound card, would it transmit and receive the whole 192KHz (+/- 96KHz of the center frequency)?

73,
Peter,
M1PFS

1271. RE: [UHFSDR] The UHFSDR

Yahoo group: UHFSDR
Date: 2012-10-19 22:38:57 UTC
From: MIKE DURKIN
Topic: 1270 Message: 1271

It Rx/tx just slightly below the 160m band ... up to one half of the max the si570 that you get. There are gaps in the coverage .. their easiest to guess by looking at the coverage the Si570 you get ... then devide by two ...

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: peteysymonds@...
Date: Fri, 19 Oct 2012 22:19:32 +0000
Subject: [UHFSDR] The UHFSDR

Hi there

I am thinking about getting and having a go at constructing a UHFSDR. But I have a few questions to ask before I start:

Does it receive and transmit anywhere between 1.75-700MHz or does it only do the amateur bands?

I have a 192KHz 24bit sound card, would it transmit and receive the whole 192KHz (+/- 96KHz of the center frequency)?

73,

Peter,

M1PFS

1272. RE: [UHFSDR] The UHFSDR

Yahoo group: UHFSDR
Date: 2012-10-19 23:08:33 UTC
From: MIKE DURKIN
Topic: 1270 Message: 1272

The Si570 clsssis "A" is speced to "10 to 945MHz, 970 to 1134MHz, and 1213 to 1417.5MHz"

The gaps should occur at 472.5mhz to 485mhz AND 567Mhz to 606.5Mhz .... but everyone already knows the bottom end is not 10Mhz but around 3.5Mhz ... for a useful bottom end around of1 ~1.75Mhz Rx/Tx ...

Soo iv never tested the "Actual" gaps ...

Mike KC7NOA

To: uhfsdr@yahoogroups.com
From: Patriot121@...
Date: Fri, 19 Oct 2012 15:38:57 -0700
Subject: RE: [UHFSDR] The UHFSDR

It Rx/tx just slightly below the 160m band ... up to one half of the max the si570 that you get. There are gaps in the coverage .. their easiest to guess by looking at the coverage the Si570 you get ... then devide by two ...

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: peteysymonds@...
Date: Fri, 19 Oct 2012 22:19:32 +0000
Subject: [UHFSDR] The UHFSDR

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Does it receive and transmit anywhere between 1.75-700MHz or does it only do the amateur bands?

I have a 192KHz 24bit sound card, would it transmit and receive the whole 192KHz (+/- 96KHz of the center frequency)?

73,

Peter,

M1PFS

1273. Re: [UHFSDR] The UHFSDR

Yahoo group: UHFSDR
Date: 2012-10-19 23:17:37 UTC
From: Dave
Topic: 1270 Message: 1273

Peter:
The UHFSDR will transmit and receive over the entire range. There are some holes in the 550 to 700 MHz range due to the Si570(the UHFSDR operaters at 1/2 of the Si570 frequency). With a 192 KHz sound card you will see 192 KHz at once. You will need to add BPF filters for the receive to eliminate harmonic and sub-harmonic responses and LPF on the transmit to reduce odd harmonics.

Dave - WB6DHW
<http://wb6dhw.com>

On 10/19/2012 3:19 PM, Peter wrote:
>
> Hi there
>
> I am thinking about getting and having a go at constructing a UHFSDR.
> But I have a few questions to ask before I start:
>
> Does it receive and transmit anywhere between 1.75-700MHz or does it
> only do the amateur bands?
>
> I have a 192KHz 24bit sound card, would it transmit and receive the
> whole 192KHz (+/- 96KHz of the center frequency)?
>
> 73,
> Peter,
> M1PFS
>
>

1274. RE: [UHFSDR] The UHFSDR

Yahoo group: UHFSDR
Date: 2012-10-19 23:22:51 UTC
From: MIKE DURKIN
Topic: 1270 Message: 1274

AND ... if you have a really good soundcard ...

Add another 80khz of usage to each gap(for a 192khz soundsource)

472.5mhz to 485mhz = 473.3Mhz (positive offset) to 484.2Mhz (negative offset)

AND 567Mhz to 606.5Mhz = 567.8Mhz to 605.7Mhz

Mike KC7NOA

To: uhfsdr@yahoogroups.com
From: Patriot121@...
Date: Fri, 19 Oct 2012 16:08:33 -0700
Subject: RE: [UHFSDR] The UHFSDR

The Si570 clsssis "A" is speced to "10 to 945MHz, 970 to 1134MHz, and 1213 to 1417.5MHz"

The gaps should occur at 472.5mhz to 485mhz AND 567Mhz to 606.5Mhz .... but everyone already knows the bottom end is not 10Mhz but around 3.5Mhz ... for a useful bottom end around of1 ~1.75Mhz Rx/Tx ...

Soo iv never tested the "Actual" gaps ...

Mike KC7NOA

To: uhfsdr@yahoogroups.com
From: Patriot121@...
Date: Fri, 19 Oct 2012 15:38:57 -0700
Subject: RE: [UHFSDR] The UHFSDR

It Rx/tx just slightly below the 160m band ... up to one half of the max the si570 that you get. There are gaps in the coverage .. their easiest to guess by looking at the coverage the Si570 you get ... then devide by two ...

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: peteysymonds@...
Date: Fri, 19 Oct 2012 22:19:32 +0000
Subject: [UHFSDR] The UHFSDR

Hi there

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I have a 192KHz 24bit sound card, would it transmit and receive the whole 192KHz (+/- 96KHz of the center frequency)?

73,

Peter,

M1PFS

1275. Dayton video on Hamradionation.com

Yahoo group: UHFSDR
Date: 2012-10-21 10:37:47 UTC
From: Hank
Topic: 1275 Message: 1275

Dave,

I just finished watching your presentation from Dayton 2012 on Hamradionation.com. I really wanted to make it to Dayton this past year but couldn't due to work. I was happy to see your presentation was taped and posted. It is a good overview of the UHFSDR, how you designed it, its capabilities, and the reason why you picked some of the components. Thanks for making the presentation, nice job! I certainly understand more about the radio after watching your presentation. Everyone interested in the UHFSDR should watch it.

Hank
WZ3HMT

1276. RE: [UHFSDR] Dayton video on Hamradionation.com

Yahoo group: UHFSDR
Date: 2012-10-21 18:13:56 UTC
From: The Silver Fox
Topic: 1275 Message: 1276
Attachments: 2 described; binary payloads are missing from this source WARC

How about a link? It isn't easy to find on the site.

73,

Alan - W6ARH

Mobokits http://mobokits.stormwarning.org/

UHFSDR Full Kit http://wb6dhw.com/For_Sale.html

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Hank
Sent: Sunday, October 21, 2012 3:38 AM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Dayton video on Hamradionation.com

Dave,

I just finished watching your presentation from Dayton 2012 on Hamradionation.com. I really wanted to make it to Dayton this past year but couldn't due to work. I was happy to see your presentation was taped and posted. It is a good overview of the UHFSDR, how you designed it, its capabilities, and the reason why you picked some of the components. Thanks for making the presentation, nice job! I certainly understand more about the radio after watching your presentation. Everyone interested in the UHFSDR should watch it.

Hank
WZ3HMT

1277. Re: [UHFSDR] Dayton video on Hamradionation.com

Yahoo group: UHFSDR
Date: 2012-10-21 19:13:27 UTC
From: Dave
Topic: 1275 Message: 1277

When you get to "videos", put WB6DHW into the Browse Video Feeder search. ARRL also put the video on Youtube. It is at <http://www.youtube.com/watch?v=JqXCDbj577Q>

Dave - WB6DHW
<http://wb6dhw.com>

On 10/21/2012 11:13 AM, The Silver Fox wrote:
>
> How about a link? It isn't easy to find on the site.
>
> 73,
>
> Alan -- W6ARH
>
> Mobokits http://mobokits.stormwarning.org/
>
> UHFSDR Full Kit http://wb6dhw.com/For_Sale.html
>
> *From:*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] *On
> Behalf Of *Hank
> *Sent:* Sunday, October 21, 2012 3:38 AM
> *To:* UHFSDR@yahoogroups.com
> *Subject:* [UHFSDR] Dayton video on Hamradionation.com
>
> Dave,
>
> I just finished watching your presentation from Dayton 2012 on
> Hamradionation.com. I really wanted to make it to Dayton this past
> year but couldn't due to work. I was happy to see your presentation
> was taped and posted. It is a good overview of the UHFSDR, how you
> designed it, its capabilities, and the reason why you picked some of
> the components. Thanks for making the presentation, nice job! I
> certainly understand more about the radio after watching your
> presentation. Everyone interested in the UHFSDR should watch it.
>
> Hank
> WZ3HMT
>
>

1278. Slightly Off topic - insatalling GNU Radio

Yahoo group: UHFSDR
Date: 2012-10-22 01:22:18 UTC
From: Will
Topic: 1278 Message: 1278

Hi All,

Sorry if this is too far off topic.

I am trying to install GNU Radio on a computer running PCLinuxOS.

After sorting out all the dependancies. Why isn't the list either in alpha order or grouped? It is a nightmare to sort out.

Now it uses cmake. I tried the commandline version and it just doesn't accept anything. Nothing unusual there. I have NEVER gotten anything to install with cmake. Tried the cmake gui version and after finding out it doesn't have ninja tried Unix and it seems to configure and generate without ending in an error.

What next? Trying cmake install from commandline gets nowhere. The gui has no other steps/information.

What is the actual program called once installed? Where does it get installed as it didn't ask for root password.

Cheers
Will
ZL1TAO

1279. Re: [UHFSDR] Slightly Off topic - insatalling GNU Radio

Yahoo group: UHFSDR
Date: 2012-10-22 10:25:53 UTC
From: Sid Boyce
Topic: 1278 Message: 1279

Hi Will.
I have built gnuradio a number of times with a patch for the HiQSDR.
Latest git built was 8th. October on openSUSE 12.3.

"cmake ." or from the build directory "cmake .." prints what it can't find.
If you use "ccmake ." or "ccmake .." from the build directory you can
see what's NOT FOUND when you use (c) to configure gnuradio.

I'm trying to make it simple for you I hope.

If you run "cmake ." it gives a summary of what the Makefile will build.
If there is something you need built, you have to look at the output of
cmake to see what is missing and install it, usually they are missing
-dev packages.

Admittedly cmake is not as easy to deal with as ./configure, it may make
life easier for the authors but quite hard going for builders of the
software.
73 ... Sid.

On 22/10/12 02:22, Will wrote:
>
> Hi All,
>
> Sorry if this is too far off topic.
>
> I am trying to install GNU Radio on a computer running PCLinuxOS.
>
> After sorting out all the dependancies. ? Why isn't the list either in
> alpha order or grouped? It is a nightmare to sort out.
>
> Now it uses cmake. I tried the commandline version and it just doesn't
> accept anything. ? Nothing unusual there. I have NEVER gotten anything
> to install with cmake. Tried the cmake gui version and after finding
> out it doesn't have ninja tried Unix and it seems to configure and
> generate without ending in an error.
>
> What next? ? Trying cmake install from commandline gets nowhere. ? The
> gui has no other steps/information. ?
>
> What is the actual program called once installed? ? Where does it get
> installed as it didn't ask for root password.
>
> Cheers
> Will
> ZL1TAO

>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1280. Re: [UHFSDR] Slightly Off topic - insatalling GNU Radio

Yahoo group: UHFSDR
Date: 2012-10-22 14:59:33 UTC
From: Sid Boyce
Topic: 1278 Message: 1280

```
An example from a new git clone.
# git clone git://gnuradio.org/gnuradio
# cd gnuradio
# mkdir build
# cd build

When you do "cmake .." you can go through the output to see if there is
anything needed that has not been found and supply it.

If you need to alter paths, e.g from /usr/local to /usr, "ccmake .."
alter the line, (c)onfigure, (g)enerate and when it's done, "cmake ..",
"make", "make install".
I have an 8-core box so I use "make -j 8" and "make -j 8 install".

gnuradio/build # cmake ..
-- The CXX compiler identification is GNU
-- The C compiler identification is GNU
-- Check for working CXX compiler: /usr/bin/c++
-- Check for working CXX compiler: /usr/bin/c++ -- works
-- Detecting CXX compiler ABI info
-- Detecting CXX compiler ABI info - done
-- Check for working C compiler: /usr/bin/gcc
-- Check for working C compiler: /usr/bin/gcc -- works
-- Detecting C compiler ABI info
-- Detecting C compiler ABI info - done
-- Build type not specified: defaulting to release.
-- Found Git: /usr/bin/git
-- Extracting version information from git describe...
-- Performing Test HAVE_VISIBILITY_HIDDEN
-- Performing Test HAVE_VISIBILITY_HIDDEN - Success
-- Performing Test HAVE_WARN_SIGN_COMPARE
-- Performing Test HAVE_WARN_SIGN_COMPARE - Success
-- Performing Test HAVE_WARN_ALL
-- Performing Test HAVE_WARN_ALL - Success
-- Performing Test HAVE_WARN_NO_UNINITIALIZED
-- Performing Test HAVE_WARN_NO_UNINITIALIZED - Success
-- Found PythonLibs: /usr/lib64/libpython2.7.so
-- Found SWIG: /usr/bin/swig (found version "2.0.7")
-- Minimum SWIG version required is 1.3.31
--
-- The build system will automatically enable all components.
-- Use -DENABLE_DEFAULT=OFF to disable components by default.
--
-- Configuring python-support support...
-- Dependency PYTHONLIBS_FOUND = TRUE
-- Dependency SWIG_FOUND = TRUE
```

```
-- Dependency SWIG_VERSION_CHECK = TRUE
-- Enabling python-support support.
-- Override with -DENABLE_PYTHON=ON/OFF
-- checking for module 'cppunit'
-- found cppunit, version 1.12.0
-- Found CPPUNIT: /usr/lib64/libcppunit.so;dl
--
-- Configuring testing-support support...
-- Dependency CPPUNIT_FOUND = TRUE
-- Enabling testing-support support.
-- Override with -DENABLE_TESTING=ON/OFF
--
-- Configuring volk support...
-- Enabling volk support.
-- Override with -DENABLE_VOLK=ON/OFF
-- Found PythonInterp: /usr/bin/python (found version "2.7.3")
--
-- Python checking for python >= 2.5
-- Python checking for python >= 2.5 - found
--
-- Python checking for Cheetah >= 2.0.0
-- Python checking for Cheetah >= 2.0.0 - found
-- Boost version: 1.49.0
-- Found the following Boost libraries:
-- unit_test_framework
-- checking for module 'orc-0.4 > 0.4.11'
-- found orc-0.4 > 0.4.11, version 0.4.16
-- Found ORC: /usr/lib64/liborc-0.4.so
-- Looking for cpuid.h
-- Looking for cpuid.h - found
-- Looking for intrin.h
-- Looking for intrin.h - not found
-- Looking for fenv.h
-- Looking for fenv.h - found
-- Looking for dlfcn.h
-- Looking for dlfcn.h - found
-- Compiler name: GNU
-- Performing Test HAVE_WERROR_UNUSED_CMD_LINE_ARG
-- Performing Test HAVE_WERROR_UNUSED_CMD_LINE_ARG - Failed
-- x86* CPU detected
-- Performing Test have_maltivec
-- Performing Test have_maltivec - Failed
-- Performing Test have_mfpu_neon
-- Performing Test have_mfpu_neon - Failed
-- Performing Test have_mfloat_abi_softfp
-- Performing Test have_mfloat_abi_softfp - Failed
-- Performing Test have_funsafe_math_optimizations
-- Performing Test have_funsafe_math_optimizations - Success
-- Performing Test have_m32
-- Performing Test have_m32 - Failed
```

```
-- Performing Test have_m64
-- Performing Test have_m64 - Success
-- Performing Test have_m3dnow
-- Performing Test have_m3dnow - Success
-- Performing Test have_msse4_2
-- Performing Test have_msse4_2 - Success
-- Performing Test have_mpopcnt
-- Performing Test have_mpopcnt - Success
-- Performing Test have_mmmx
-- Performing Test have_mmmx - Success
-- Performing Test have_msse
-- Performing Test have_msse - Success
-- Performing Test have_msse2
-- Performing Test have_msse2 - Success
-- Performing Test have_msse3
-- Performing Test have_msse3 - Success
-- Performing Test have_mssse3
-- Performing Test have_mssse3 - Success
-- Performing Test have_msse4a
-- Performing Test have_msse4a - Success
-- Performing Test have_msse4_1
-- Performing Test have_msse4_1 - Success
-- Performing Test have_mavx
-- Performing Test have_mavx - Success
-- Check size of void*[8]
-- Check size of void*[8] - done
-- CPU width is 64 bits, Overruled arch 32
-- Available architectures:
generic;64;3dnow;abm;popcount;mmx;sse;sse2;orc;norc;sse3;ssse3;sse4_a;sse4_1;sse4_2;avx
-- Available machines:
generic_orc;sse2_64_mmx_orc;sse3_64_orc;ssse3_64_orc;sse4_a_64_orc;sse4_1_64_orc;sse4_2_64
_orc;avx_64_mmx_orc
-- Using install prefix: /usr/local
-- Found Doxygen: /usr/bin/doxygen
-- Could NOT find Sphinx (missing: SPHINX_EXECUTABLE)
--
-- Configuring doxygen support...
-- Dependency DOXYGEN_FOUND = YES
-- Enabling doxygen support.
-- Override with -DENABLE_DOXYGEN=ON/OFF
--
-- Configuring sphinx support...
-- Dependency SPHINX_FOUND = FALSE
-- Disabling sphinx support.
-- Override with -DENABLE_SPHINX=ON/OFF
-- Boost version: 1.49.0
-- Found the following Boost libraries:
-- date_time
-- program_options
-- filesystem
```

```
-- system
-- thread
--
-- Configuring gruel support...
-- Dependency Boost_FOUND = TRUE
-- Dependency PYTHONINTERP_FOUND = TRUE
-- Enabling gruel support.
-- Override with -DENABLE_GRUEL=ON/OFF
-- Looking for C++ include signal.h
-- Looking for C++ include signal.h - found
-- Looking for C++ include sched.h
-- Looking for C++ include sched.h - found
-- Performing Test HAVE_PTHREAD_SIGMASK
-- Performing Test HAVE_PTHREAD_SIGMASK - Success
-- Performing Test HAVE_PTHREAD_SETSCHEDPARAM
-- Performing Test HAVE_PTHREAD_SETSCHEDPARAM - Success
-- Performing Test HAVE_SCHED_SETSCHEDULER
-- Performing Test HAVE_SCHED_SETSCHEDULER - Success
-- checking for module 'fftw3f >= 3.0'
-- found fftw3f , version 3.3.2
-- Found FFTW3F: /usr/lib64/libfftw3f.so
--
-- Configuring gnuradio-core support...
-- Dependency ENABLE_GRUEL = ON
-- Dependency ENABLE_VOLK = ON
-- Dependency Boost_FOUND = TRUE
-- Dependency FFTW3F_FOUND = TRUE
-- Dependency PYTHONINTERP_FOUND = TRUE
-- Enabling gnuradio-core support.
-- Override with -DENABLE_GR_CORE=ON/OFF
-- Looking for C++ include netdb.h
-- Looking for C++ include netdb.h - found
-- Looking for C++ include sys/time.h
-- Looking for C++ include sys/time.h - found
-- Looking for C++ include sys/types.h
-- Looking for C++ include sys/types.h - found
-- Looking for C++ include sys/select.h
-- Looking for C++ include sys/select.h - found
-- Looking for C++ include sys/socket.h
-- Looking for C++ include sys/socket.h - found
-- Looking for C++ include io.h
-- Looking for C++ include io.h - not found
-- Looking for C++ include sys/mman.h
-- Looking for C++ include sys/mman.h - found
-- Looking for C++ include sys/ipc.h
-- Looking for C++ include sys/ipc.h - found
-- Looking for C++ include sys/shm.h
-- Looking for C++ include sys/shm.h - found
-- Looking for C++ include netinet/in.h
-- Looking for C++ include netinet/in.h - found
```

```
-- Looking for C++ include arpa/inet.h
-- Looking for C++ include arpa/inet.h - found
-- Looking for C++ include byteswap.h
-- Looking for C++ include byteswap.h - found
-- Looking for C++ include linux/ppdev.h
-- Looking for C++ include linux/ppdev.h - found
-- Looking for C++ include dev/ppbus/ppi.h
-- Looking for C++ include dev/ppbus/ppi.h - not found
-- Looking for C++ include unistd.h
-- Looking for C++ include unistd.h - found
-- Looking for C++ include malloc.h
-- Looking for C++ include malloc.h - found
-- Performing Test HAVE_SNPRINTF
-- Performing Test HAVE_SNPRINTF - Success
-- Performing Test HAVE_SIGACTION
-- Performing Test HAVE_SIGACTION - Success
-- Performing Test HAVE_SELECT
-- Performing Test HAVE_SELECT - Success
-- Performing Test HAVE_SYSCONF
-- Performing Test HAVE_SYSCONF - Success
-- Performing Test HAVE_GETPAGESIZE
-- Performing Test HAVE_GETPAGESIZE - Success
-- Performing Test HAVE_SSLEEP
-- Performing Test HAVE_SSLEEP - Failed
-- Performing Test HAVE_NANOSLEEP
-- Performing Test HAVE_NANOSLEEP - Success
-- Performing Test HAVE_GETTIMEOFDAY
-- Performing Test HAVE_GETTIMEOFDAY - Success
-- Performing Test HAVE_POSIX_MEMALIGN
-- Performing Test HAVE_POSIX_MEMALIGN - Success
-- Performing Test HAVE_VALLOC
-- Performing Test HAVE_VALLOC - Success
-- Performing Test HAVE_CREATEFILEMAPPING
-- Performing Test HAVE_CREATEFILEMAPPING - Failed
-- Looking for C++ include windows.h
-- Looking for C++ include windows.h - not found
-- Performing Test HAVE_SHM_OPEN
-- Performing Test HAVE_SHM_OPEN - Success
-- Performing Test HAVE_SINCOS
-- Performing Test HAVE_SINCOS - Success
-- Performing Test HAVE_SINCOSF
-- Performing Test HAVE_SINCOSF - Success
-- Performing Test HAVE_SINF
-- Performing Test HAVE_SINF - Success
-- Performing Test HAVE_COSF
-- Performing Test HAVE_COSF - Success
-- Performing Test HAVE_MMAP
-- Performing Test HAVE_MMAP - Success
-- TRY_SHM_VMCIRCBUF set to ON.
-- Check size of void*
```

```
-- Check size of void* - done
-- Loading build date Mon, 22 Oct 2012 14:35:29 into gr_constants...
-- Loading version v3.6.2-112-gfa4f1c2f into gr_constants...
-- Looking for C++ include sys/resource.h
-- Looking for C++ include sys/resource.h - found
--
-- Python checking for python >= 2.5
-- Python checking for python >= 2.5 - found
--
-- Python checking for Cheetah >= 2.0.0
-- Python checking for Cheetah >= 2.0.0 - found
--
-- Python checking for lxml >= 1.3.6
-- Python checking for lxml >= 1.3.6 - found
--
-- Python checking for pygtk >= 2.10.0
-- Python checking for pygtk >= 2.10.0 - found
--
-- Python checking for numpy
-- Python checking for numpy - found
--
-- Configuring gnuradio-companion support...
-- Dependency ENABLE_GR_CORE = ON
-- Dependency ENABLE_PYTHON = ON
-- Dependency PYTHON_MIN_VER_FOUND = TRUE
-- Dependency CHEETAH_FOUND = TRUE
-- Dependency LXML_FOUND = TRUE
-- Dependency PYGTK_FOUND = TRUE
-- Dependency NUMPY_FOUND = TRUE
-- Enabling gnuradio-companion support.
-- Override with -DENABLE_GRC=ON/OFF
--
-- Configuring gr-fft support...
-- Dependency ENABLE_GRUEL = ON
-- Dependency ENABLE_VOLK = ON
-- Dependency Boost_FOUND = TRUE
-- Dependency ENABLE_GR_CORE = ON
-- Dependency FFTW3F_FOUND = TRUE
-- Enabling gr-fft support.
-- Override with -DENABLE_GR_FFT=ON/OFF
--
-- Configuring gr-filter support...
-- Dependency ENABLE_GRUEL = ON
-- Dependency ENABLE_VOLK = ON
-- Dependency Boost_FOUND = TRUE
-- Dependency ENABLE_GR_CORE = ON
-- Dependency ENABLE_GR_FFT = ON
-- Enabling gr-filter support.
-- Override with -DENABLE_GR_FILTER=ON/OFF
--
```

```
-- Configuring gr-atsc support...
-- Dependency Boost_FOUND = TRUE
-- Dependency ENABLE_GR_CORE = ON
-- Enabling gr-atsc support.
-- Override with -DENABLE_GR_ATSC=ON/OFF
--
-- Configuring gr-audio support...
-- Dependency Boost_FOUND = TRUE
-- Dependency ENABLE_GR_CORE = ON
-- Enabling gr-audio support.
-- Override with -DENABLE_GR_AUDIO=ON/OFF
-- checking for module 'alsa'
-- found alsa, version 1.0.26
-- Found ALSA 1.0.26
-- checking for module 'jack'
-- found jack, version 1.9.8
-- Found jack: /usr/lib64/libjack.so
-- Looking for C++ include AudioUnit/AudioUnit.h
-- Looking for C++ include AudioUnit/AudioUnit.h - not found
-- Looking for C++ include AudioToolbox/AudioToolbox.h
-- Looking for C++ include AudioToolbox/AudioToolbox.h - not found
-- checking for module 'portaudio'
-- package 'portaudio' not found
-- Found PORTAUDIO: /usr/include
-- checking for module 'comedilib'
-- package 'comedilib' not found
--
-- Configuring gr-comedi support...
-- Dependency COMEDI_FOUND =
-- Dependency LINUX = TRUE
-- Dependency Boost_FOUND = TRUE
-- Dependency ENABLE_GR_CORE = ON
-- Disabling gr-comedi support.
-- Override with -DENABLE_GR_COMEDI=ON/OFF
--
-- Configuring gr-analog support...
-- Dependency Boost_FOUND = TRUE
-- Dependency ENABLE_VOLK = ON
-- Dependency ENABLE_GR_CORE = ON
-- Dependency ENABLE_GR_FFT = ON
-- Dependency ENABLE_GR_FILTER = ON
-- Enabling gr-analog support.
-- Override with -DENABLE_GR_ANALOG=ON/OFF
--
-- Configuring gr-digital support...
-- Dependency Boost_FOUND = TRUE
-- Dependency ENABLE_GR_CORE = ON
-- Enabling gr-digital support.
-- Override with -DENABLE_GR_DIGITAL=ON/OFF
--
```

```
-- Configuring gr-noaa support...
-- Dependency Boost_FOUND = TRUE
-- Dependency ENABLE_GR_CORE = ON
-- Enabling gr-noaa support.
-- Override with -DENABLE_GR_NOAA=ON/OFF
--
-- Configuring gr-pager support...
-- Dependency Boost_FOUND = TRUE
-- Dependency ENABLE_GR_CORE = ON
-- Enabling gr-pager support.
-- Override with -DENABLE_GR_PAGER=ON/OFF
-- Looking for Q_WS_X11
-- Looking for Q_WS_X11 - not found.
-- Looking for Q_WS_WIN
-- Looking for Q_WS_WIN - not found.
-- Looking for Q_WS_QWS
-- Looking for Q_WS_QWS - not found.
-- Looking for Q_WS_MAC
-- Looking for Q_WS_MAC - not found.
-- Found Qt4: /usr/bin/qmake (found suitable version "5.0.0", required
is "4.2.0")
-- Could NOT find Qwt (missing: QWT_LIBRARIES QWT_INCLUDE_DIRS)
--
-- Python checking for PyQt4
-- Python checking for PyQt4 - found
--
-- Configuring gr-qtgui support...
-- Dependency Boost_FOUND = TRUE
-- Dependency QT4_FOUND = TRUE
-- Dependency QWT_FOUND = FALSE
-- Dependency ENABLE_GR_CORE = ON
-- Dependency PYTHONLIBS_FOUND = TRUE
-- Dependency PYQT4_FOUND = TRUE
-- Disabling gr-qtgui support.
-- Override with -DENABLE_GR_QTGUI=ON/OFF
--
-- Configuring gr-trellis support...
-- Dependency Boost_FOUND = TRUE
-- Dependency ENABLE_GR_CORE = ON
-- Dependency ENABLE_GR_DIGITAL = ON
-- Enabling gr-trellis support.
-- Override with -DENABLE_GR_TRELLIS=ON/OFF
-- checking for module 'uhd'
-- package 'uhd' not found
-- Could NOT find UHD (missing: UHD_LIBRARIES UHD_INCLUDE_DIRS)
--
-- Configuring gr-uhd support...
-- Dependency Boost_FOUND = TRUE
-- Dependency UHD_FOUND = FALSE
-- Dependency ENABLE_GR_CORE = ON
```

```
-- Disabling gr-uhd support.
-- Override with -DENABLE_GR_UHD=ON/OFF
-- checking for module 'shd'
-- package 'shd' not found
-- Could NOT find SHD (missing: SHD_LIBRARIES SHD_INCLUDE_DIRS)
--
-- Configuring gr-shd support...
-- Dependency Boost_FOUND = TRUE
-- Dependency SHD_FOUND = FALSE
-- Dependency ENABLE_GR_CORE = ON
-- Disabling gr-shd support.
-- Override with -DENABLE_GR_SHD=ON/OFF
--
-- Configuring gr-utils support...
-- Dependency ENABLE_GR_CORE = ON
-- Dependency ENABLE_PYTHON = ON
-- Enabling gr-utils support.
-- Override with -DENABLE_GR_UTILS=ON/OFF
-- Looking for include files CMAKE_HAVE_PTHREAD_H
-- Looking for include files CMAKE_HAVE_PTHREAD_H - found
-- Looking for pthread_create in pthreads
-- Looking for pthread_create in pthreads - not found
-- Looking for pthread_create in pthread
-- Looking for pthread_create in pthread - found
-- Found Threads: TRUE
--
-- Configuring gr-video-sdl support...
-- Dependency SDL_FOUND = YES
-- Dependency Boost_FOUND = TRUE
-- Dependency ENABLE_GR_CORE = ON
-- Enabling gr-video-sdl support.
-- Override with -DENABLE_GR_VIDEO_SDL=ON/OFF
--
-- Configuring gr-vocoder support...
-- Dependency Boost_FOUND = TRUE
-- Dependency ENABLE_GR_CORE = ON
-- Enabling gr-vocoder support.
-- Override with -DENABLE_GR_VOCODER=ON/OFF
-- checking for module 'libusb-1.0'
-- found libusb-1.0, version 1.0.9
-- Found libusb-1.0: /usr/include/libusb-1.0, /usr/lib64/libusb-1.0.so
--
-- Configuring gr-fcd support...
-- Dependency Boost_FOUND = TRUE
-- Dependency ENABLE_GR_CORE = ON
-- Dependency ENABLE_GR_AUDIO = ON
-- Dependency LIBUSB_FOUND = TRUE
-- Enabling gr-fcd support.
-- Override with -DENABLE_GR_FCD=ON/OFF
-- checking for module 'gsl >= 1.10'
```

```
-- found gsl , version 1.15
--
-- Configuring gr-wavelet support...
-- Dependency Boost_FOUND = TRUE
-- Dependency ENABLE_GR_CORE = ON
-- Dependency GSL_FOUND = 1
-- Enabling gr-wavelet support.
-- Override with -DENABLE_GR_WAVELET=ON/OFF
--
-- Python checking for wx >= 2.8
-- Python checking for wx >= 2.8 - found
--
-- Python checking for numpy
-- Python checking for numpy - found
--
-- Configuring gr-wxgui support...
-- Dependency ENABLE_GR_CORE = ON
-- Dependency ENABLE_PYTHON = ON
-- Dependency NUMPY_FOUND = TRUE
-- Dependency WX_FOUND = TRUE
-- Enabling gr-wxgui support.
-- Override with -DENABLE_GR_WXGUI=ON/OFF
--
-- Configuring gr-blocks support...
-- Dependency Boost_FOUND = TRUE
-- Dependency ENABLE_GR_CORE = ON
-- Enabling gr-blocks support.
-- Override with -DENABLE_GR_BLOCKS=ON/OFF
--
-- ##################################################
-- # Gnuradio enabled components
-- ##################################################
-- * python-support
-- * testing-support
-- * volk
-- * doxygen
-- * gruel
-- * gnuradio-core
-- * gnuradio-companion
-- * gr-fft
-- * gr-filter
-- * gr-atsc
-- * gr-audio
-- * gr-analog
-- * gr-digital
-- * gr-noaa
-- * gr-pager
-- * gr-trellis
-- * gr-utils
-- * gr-video-sdl
```

```
-- * gr-vocoder
-- * gr-fcd
-- * gr-wavelet
-- * gr-wxgui
-- * gr-blocks
--
-- ##################################################
-- # Gnuradio disabled components
-- ##################################################
-- * sphinx
-- * gr-comedi
-- * gr-qtgui
-- * gr-uhd
-- * gr-shd
--
-- Using install prefix: /usr/local
-- Building for version: v3.6.2-112-gfa4f1c2f / 3.6.3git
-- Configuring done
-- Generating done
-- Build files have been written to:
/home/lancelot/ftp/OCT12/GNURADIO_TEST/gnuradio/build
slipstream:/home/lancelot/ftp/OCT12/GNURADIO_TEST/gnuradio/build # make -j 8
<Lots of messages for each step and % built + warnings until make has
completed>
[ 99%] Built target _fft_swig
Scanning dependencies of target _blocks_swig
[ 99%] Building CXX object
gr-blocks/swig/CMakeFiles/_blocks_swig.dir/blocks_swigPYTHON_wrap.cxx.o
Linking CXX shared module _vocoder_swig.so
[ 99%] Built target _vocoder_swig
[ 99%] [ 99%] Generating blocks_swig.pyo
Generating blocks_swig.pyc
[ 99%] Built target pygen_gr_blocks_swig_d6548
/home/lancelot/ftp/OCT12/GNURADIO_TEST/gnuradio/build/gr-blocks/swig/blocks_swigPYTHON_wra
p.cxx:
In function 'void init_blocks_swig()':
/home/lancelot/ftp/OCT12/GNURADIO_TEST/gnuradio/build/gr-blocks/swig/blocks_swigPYTHON_wra
p.cxx:134346:21:
warning: variable 'md' set but not used [-Wunused-but-set-variable]
Linking CXX shared module _atsc.so
[ 99%] Built target _atsc
Linking CXX shared module _digital_swig.so
[ 99%] Built target _digital_swig
Linking CXX shared module _trellis.so
[100%] Built target _trellis
Linking CXX shared module _blocks_swig.so
[100%] Built target _blocks_swig
slipstream:/home/lancelot/ftp/OCT12/GNURADIO_TEST/gnuradio/build #
```

Hope this helps.
73 ... Sid.

On 22/10/12 02:22, Will wrote:
>
> Hi All,
>
> Sorry if this is too far off topic.
>
> I am trying to install GNU Radio on a computer running PCLinuxOS.
>
> After sorting out all the dependancies. ? Why isn't the list either in
> alpha order or grouped? It is a nightmare to sort out.
>
> Now it uses cmake. I tried the commandline version and it just doesn't
> accept anything. ? Nothing unusual there. I have NEVER gotten anything
> to install with cmake. Tried the cmake gui version and after finding
> out it doesn't have ninja tried Unix and it seems to configure and
> generate without ending in an error.
>
> What next? ? Trying cmake install from commandline gets nowhere. ? The
> gui has no other steps/information. ?
>
> What is the actual program called once installed? ? Where does it get
> installed as it didn't ask for root password.
>
> Cheers
> Will
> ZL1TAO
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1281. BPF kit availability

Yahoo group: UHFSDR
Date: 2012-10-22 17:32:52 UTC
From: keestheham
Topic: 1281 Message: 1281

I've been working with Dave to put a complete kit together using his BPF board with Chip Inductors or "you wind 'em" Toroid Inductors ....with or without the board just in case you already purchased the board. Details are at http://www.qsl.net/k5bcq/Kits/Kits.html

These BPFs are intended for receive inputs and will work with many radios including I/Q radios like UHFSDR and SoftRocks. Band selection is via 3 bits which can be driven by logic levels (Si570 Controller, SDR2GO, etc) or a Octal switch (8 positions used) to ground since they have pull-ups.

73 Kees K5BCQ

1282. Re: [UHFSDR] BPF kit availability

Yahoo group: UHFSDR
Date: 2012-10-22 19:13:28 UTC
From: Sid Boyce
Topic: 1281 Message: 1282

On 22/10/12 18:32, keestheham wrote:
>
> I've been working with Dave to put a complete kit together using his
> BPF board with Chip Inductors or "you wind 'em" Toroid Inductors
> ....with or without the board just in case you already purchased the
> board. Details are at http://www.qsl.net/k5bcq/Kits/Kits.html
>
> These BPFs are intended for receive inputs and will work with many
> radios including I/Q radios like UHFSDR and SoftRocks. Band selection
> is via 3 bits which can be driven by logic levels (Si570 Controller,
> SDR2GO, etc) or a Octal switch (8 positions used) to ground since they
> have pull-ups.
>
> 73 Kees K5BCQ
>
>
One possibility I need to look into is using the 8574 I/O board as used
with the Mobo v4.3.4 to do the BPF switching.
73 ... Sid.

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1283. need part

Yahoo group: UHFSDR
Date: 2012-10-31 16:46:37 UTC
From: MIKE DURKIN
Topic: 1283 Message: 1283

Well my first UHFSDR board and started making popping noise again ... and since my Scope was back in working order ... traced my problem down to the MC33078. So I need another one ...

If any one gas one for sale, please let me know ... I also am interested in a pair of 100nF inductors for the Rx upgrade ...

Mike KC7NOA

1284. RE: [UHFSDR] need part

Yahoo group: UHFSDR
Date: 2012-10-31 17:23:21 UTC
From: The Silver Fox
Topic: 1283 Message: 1284

I can provide the MC33078. What form factor do we need for the 100nF inductors?

73,

Alan - W6ARH

Mobokits http://mobokits.stormwarning.org/

UHFSDR Full Kit http://wb6dhw.com/For_Sale.html

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of MIKE DURKIN
Sent: Wednesday, October 31, 2012 9:47 AM
To: uhfsdr@yahoogroups.com
Subject: [UHFSDR] need part

Well my first UHFSDR board and started making popping noise again ... and since my Scope was back in working order ... traced my problem down to the MC33078. So I need another one ...

If any one gas one for sale, please let me know ... I also am interested in a pair of 100nF inductors for the Rx upgrade ...

Mike KC7NOA

1285. RE: [UHFSDR] need part

Yahoo group: UHFSDR
Date: 2012-10-31 17:42:00 UTC
From: MIKE DURKIN
Topic: 1283 Message: 1285

What ever every one else is using to use the SPF5043 in the UHFSDR ...

To: UHFSDR@yahoogroups.com
From: alan.r.hill@...
Date: Wed, 31 Oct 2012 10:23:21 -0700
Subject: RE: [UHFSDR] need part

I can provide the MC33078. What form factor do we need for the 100nF inductors?73,Alan – W6ARH Mobokits http://mobokits.stormwarning.org/UHFSDR Full Kit http://wb6dhw.com/For_Sale.html From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of MIKE DURKIN
Sent: Wednesday, October 31, 2012 9:47 AM
To: uhfsdr@yahoogroups.com
Subject: [UHFSDR] need part Well my first UHFSDR board and started making popping noise again ... and since my Scope was back in working order ... traced my problem down to the MC33078. So I need another one ...

If any one gas one for sale, please let me know ... I also am interested in a pair of 100nF inductors for the Rx upgrade ...

Mike KC7NOA

1286. Re: [UHFSDR] need part

Yahoo group: UHFSDR
Date: 2012-10-31 20:03:45 UTC
From: Sid Boyce
Topic: 1283 Message: 1286

In that space it looks like 0603 would do. I managed to fit one that's the size of a regular through hole 1/2W resistor.

Alan, if you are getting them I would like to have 2 from you and also 2 FST3257's.

I got some SN74CBT3257's from RS Somponents, resulting in ~60dBm noise floor and also no signals.

I'll Paypal as usual.
73 ... Sid.

On 31/10/12 17:23, The Silver Fox wrote:
>
> I can provide the MC33078. What form factor do we need for the 100nF
> inductors?
>
> 73,
>
> Alan -- W6ARH
>
> Mobokits http://mobokits.stormwarning.org/
>
> UHFSDR Full Kit http://wb6dhw.com/For_Sale.html
>
> *From:*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] *On
> Behalf Of *MIKE DURKIN
> *Sent:* Wednesday, October 31, 2012 9:47 AM
> *To:* uhfsdr@yahoogroups.com
> *Subject:* [UHFSDR] need part
>
> Well my first UHFSDR board and started making popping noise again ...
> and since my Scope was back in working order ... traced my problem
> down to the MC33078. So I need another one ...
>
> If any one gas one for sale, please let me know ... I also am
> interested in a pair of 100nF inductors for the Rx upgrade ...
>
> Mike KC7NOA
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach

Microsoft Windows Free Zone - Linux used for all Computing Tasks

1287. Re: [UHFSDR] need part

Yahoo group: UHFSDR
Date: 2012-10-31 20:16:45 UTC
From: Dave
Topic: 1283 Message: 1287

That is L1 and the pads will accept either 0805 or 1210 or 1206. You could probably put a 0603 in there as well. If you are going to go below about 10 MHz, 100 nH is too small. Use 1uH or higher(my latest schematic shows 3.3 uH). If you are going to use both UHF and below 10 MHz, make sure the SRF of the coil is near or above your highest freq.

Dave - WB6DHW
<http://wb6dhw.com>

On 10/31/2012 1:03 PM, Sid Boyce wrote:
>
> In that space it looks like 0603 would do. I managed to fit one that's
> the size of a regular through hole 1/2W resistor.
>
> Alan, if you are getting them I would like to have 2 from you and also
> 2 FST3257's.
>
> I got some SN74CBT3257's from RS Somponents, resulting in ~60dBm noise
> floor and also no signals.
>
> I'll Paypal as usual.
> 73 ... Sid.
>
> On 31/10/12 17:23, The Silver Fox wrote:
>>
>> I can provide the MC33078. What form factor do we need for the 100nF
>> inductors?
>>
>> 73,
>>
>> Alan -- W6ARH
>>
>> Mobokits http://mobokits.stormwarning.org/
>>
>> UHFSDR Full Kit http://wb6dhw.com/For_Sale.html
>>
>> *From:*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] *On
>> Behalf Of *MIKE DURKIN
>> *Sent:* Wednesday, October 31, 2012 9:47 AM
>> *To:* uhfsdr@yahoogroups.com
>> *Subject:* [UHFSDR] need part
>>
>> Well my first UHFSDR board and started making popping noise again ...
>> and since my Scope was back in working order ... traced my problem
>> down to the MC33078. So I need another one ...

>>
>> If any one gas one for sale, please let me know ... I also am
>> interested in a pair of 100nF inductors for the Rx upgrade ...
>>
>> Mike KC7NOA
>>
>
>

1288. RE: [UHFSDR] need part

Yahoo group: UHFSDR
Date: 2012-10-31 20:58:56 UTC
From: The Silver Fox
Topic: 1283 Message: 1288

OK. I will order inductors for the group but I need resolution on what value to buy.

P. S. For some reason I did not get Sid's message.

73,

Alan - W6ARH

Mobokits http://mobokits.stormwarning.org/

UHFSDR Full Kit http://wb6dhw.com/For_Sale.html

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Dave
Sent: Wednesday, October 31, 2012 1:17 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] need part

That is L1 and the pads will accept either 0805 or 1210 or 1206. You could probably put a 0603 in there as well. If you are going to go below about 10 MHz, 100 nH is too small. Use 1uH or higher(my latest schematic shows 3.3 uH). If you are going to use both UHF and below 10 MHz, make sure the SRF of the coil is near or above your highest freq.

Dave - WB6DHW
<http://wb6dhw.com> <http://wb6dhw.com>

On 10/31/2012 1:03 PM, Sid Boyce wrote:

In that space it looks like 0603 would do. I managed to fit one that's the size of a regular through hole 1/2W resistor.

Alan, if you are getting them I would like to have 2 from you and also 2 FST3257's.

I got some SN74CBT3257's from RS Somponents, resulting in ~60dBm noise floor and also no signals.

I'll Paypal as usual.
73 ... Sid.

On 31/10/12 17:23, The Silver Fox wrote:

I can provide the MC33078. What form factor do we need for the 100nF inductors?

73,

Alan - W6ARH

Mobokits http://mobokits.stormwarning.org/

UHFSDR Full Kit http://wb6dhw.com/For_Sale.html

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of MIKE DURKIN
Sent: Wednesday, October 31, 2012 9:47 AM
To: uhfsdr@yahoogroups.com
Subject: [UHFSDR] need part

Well my first UHFSDR board and started making popping noise again ... and since my Scope was back in working order ... traced my problem down to the MC33078. So I need another one ...

If any one gas one for sale, please let me know ... I also am interested in a pair of 100nF inductors for the Rx upgrade ...

Mike KC7NOA

1289. Re: [UHFSDR] need part

Yahoo group: UHFSDR
Date: 2012-10-31 22:47:07 UTC
From: Dave
Topic: 1283 Message: 1289

Alan:
What are you buying for the current kits? The new mmic should be
able to use the same inductor. The one I have on my schematic is the
IMC1210ER3R3K, available from Mouser for $0.47. Its SRF is 60 MHz, so
don't know how well it would work at 450 MHz.

Dave - WB6DHW
<http://wb6dhw.com>

On 10/31/2012 1:58 PM, The Silver Fox wrote:
>
> OK. I will order inductors for the group but I need resolution on
> what value to buy.
>
> P. S. For some reason I did not get Sid's message.
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> 73,
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> Alan -- W6ARH
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> Mobokits http://mobokits.stormwarning.org/
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>
> *From:*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] *On
> Behalf Of *Dave
> *Sent:* Wednesday, October 31, 2012 1:17 PM
> *To:* UHFSDR@yahoogroups.com
> *Subject:* Re: [UHFSDR] need part
>
> That is L1 and the pads will accept either 0805 or 1210 or 1206.
> You could probably put a 0603 in there as well. If you are going to
> go below about 10 MHz, 100 nH is too small. Use 1uH or higher(my
> latest schematic shows 3.3 uH). If you are going to use both UHF and
> below 10 MHz, make sure the SRF of the coil is near or above your
> highest freq.
>
> Dave - WB6DHW
> <http://wb6dhw.com> <http://wb6dhw.com>
>
> On 10/31/2012 1:03 PM, Sid Boyce wrote:
>
> In that space it looks like 0603 would do. I managed to fit one
> that's the size of a regular through hole 1/2W resistor.
>

> Alan, if you are getting them I would like to have 2 from you and
> also 2 FST3257's.
>
> I got some SN74CBT3257's from RS Somponents, resulting in ~60dBm
> noise floor and also no signals.
>
> I'll Paypal as usual.
> 73 ... Sid.
>
> On 31/10/12 17:23, The Silver Fox wrote:
>
> I can provide the MC33078. What form factor do we need for
> the 100nF inductors?
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> 73,
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> Alan -- W6ARH
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> Mobokits http://mobokits.stormwarning.org/
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> *From:*UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> [mailto:UHFSDR@yahoogroups.com] *On Behalf Of *MIKE DURKIN
> *Sent:* Wednesday, October 31, 2012 9:47 AM
> *To:* uhfsdr@yahoogroups.com <mailto:uhfsdr@yahoogroups.com>
> *Subject:* [UHFSDR] need part
>
> Well my first UHFSDR board and started making popping noise
> again ... and since my Scope was back in working order ...
> traced my problem down to the MC33078. So I need another one ...
>
> If any one gas one for sale, please let me know ... I also am
> interested in a pair of 100nF inductors for the Rx upgrade ...
>
> Mike KC7NOA
>
>

1290. RE: [UHFSDR] need part

Yahoo group: UHFSDR
Date: 2012-10-31 23:00:30 UTC
From: MIKE DURKIN
Topic: 1283 Message: 1290

I was referring to what replaces R3(120ohm) U4 ...

If My memory servers me correct ... a 100nF was used for use to around 500mhz... perhaps tumbstoned with a 3.3uh(series)..

Mike KC7NOA

Its near impossible to search email and compose one at the same time on a DROID...

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Wed, 31 Oct 2012 13:16:45 -0700
Subject: Re: [UHFSDR] need part

That is L1 and the pads will accept
either 0805 or 1210 or 1206. You could probably put a 0603 in
there as well. If you are going to go below about 10 MHz, 100 nH
is too small. Use 1uH or higher(my latest schematic shows 3.3
uH). If you are going to use both UHF and below 10 MHz, make sure
the SRF of the coil is near or above your highest freq.

Dave - WB6DHW

<http://wb6dhw.com>

On 10/31/2012 1:03 PM, Sid Boyce wrote:

In that space it looks like
0603 would do. I managed to fit one that's the size of a
regular through hole 1/2W resistor.

Alan, if you are getting them I would like to have 2 from
you and also 2 FST3257's.

I got some SN74CBT3257's from RS Somponents, resulting in
~60dBm noise floor and also no signals.

I'll Paypal as usual.

73 ... Sid.

On 31/10/12 17:23, The Silver Fox wrote:

I can
provide the MC33078. What form factor do we need
for the 100nF inductors?
73,
Alan –
W6ARH

Mobokits http://mobokits.stormwarning.org/
UHFSDR
Full Kit http://wb6dhw.com/For_Sale.html

From: UHFSDR@yahoogroups.com
[mailto:UHFSDR@yahoogroups.com]
On Behalf Of MIKE DURKIN

Sent: Wednesday, October 31, 2012 9:47
AM

To: uhfsdr@yahoogroups.com

Subject: [UHFSDR] need part

Well my first UHFSDR
board and started making popping noise again
... and since my Scope was back in working
order ... traced my problem down to the
MC33078. So I need another one ...

If any one gas one for sale, please let me
know ... I also am interested in a pair of
100nF inductors for the Rx upgrade ...

Mike KC7NOA

1291. RE: [UHFSDR] need part

Yahoo group: UHFSDR
Date: 2012-10-31 23:23:53 UTC
From: The Silver Fox
Topic: 1283 Message: 1291
Attachments: 2 described; binary payloads are missing from this source WARC

The original message indicates replacing R3 with a 100nH inductor. So unless one thinks of a better solution, that is what I will order as form factor 0805.

73,

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Dave
Sent: Wednesday, October 31, 2012 3:47 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] need part

Alan:
What are you buying for the current kits? The new mmic should be able to use the same inductor. The one I have on my schematic is the IMC1210ER3R3K, available from Mouser for $0.47. Its SRF is 60 MHz, so don't know how well it would work at 450 MHz.

Dave - WB6DHW
<http://wb6dhw.com> <http://wb6dhw.com>

On 10/31/2012 1:58 PM, The Silver Fox wrote:

OK. I will order inductors for the group but I need resolution on what value to buy.

P. S. For some reason I did not get Sid's message.

73,

Alan - W6ARH

Mobokits http://mobokits.stormwarning.org/

UHFSDR Full Kit http://wb6dhw.com/For_Sale.html

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Dave
Sent: Wednesday, October 31, 2012 1:17 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] need part

That is L1 and the pads will accept either 0805 or 1210 or 1206. You could probably put a 0603 in there as well. If you are going to go below about 10 MHz, 100 nH is too small. Use 1uH or higher(my latest schematic

shows 3.3 uH). If you are going to use both UHF and below 10 MHz, make sure the SRF of the coil is near or above your highest freq.

Dave - WB6DHW
<http://wb6dhw.com> <http://wb6dhw.com>

On 10/31/2012 1:03 PM, Sid Boyce wrote:

In that space it looks like 0603 would do. I managed to fit one that's the size of a regular through hole 1/2W resistor.

Alan, if you are getting them I would like to have 2 from you and also 2 FST3257's.

I got some SN74CBT3257's from RS Somponents, resulting in ~60dBm noise floor and also no signals.

I'll Paypal as usual.
73 ... Sid.

On 31/10/12 17:23, The Silver Fox wrote:

I can provide the MC33078. What form factor do we need for the 100nF inductors?

73,

Alan - W6ARH

Mobokits http://mobokits.stormwarning.org/

UHFSDR Full Kit http://wb6dhw.com/For_Sale.html

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of MIKE DURKIN
Sent: Wednesday, October 31, 2012 9:47 AM
To: uhfsdr@yahoogroups.com
Subject: [UHFSDR] need part

Well my first UHFSDR board and started making popping noise again ... and since my Scope was back in working order ... traced my problem down to the MC33078. So I need another one ...

If any one gas one for sale, please let me know ... I also am interested in a pair of 100nF inductors for the Rx upgrade ...

Mike KC7NOA

1292. Re: [UHFSDR] need part

Yahoo group: UHFSDR
Date: 2012-11-01 00:02:06 UTC
From: Dave
Topic: 1283 Message: 1292

Mike:
I just looked at the original message. It was that 100nF Inductor
that confused me(I assumed 100nH). R3 is a 0805. The circuit has a
100nF plus a 1nF in parallel.

Dave - WB6DHW
<http://wb6dhw.com>

On 10/31/2012 4:00 PM, MIKE DURKIN wrote:
>
> I was referring to what replaces R3(120ohm) U4 ...
>
> If My memory servers me correct ... a 100nF was used for use to around
> 500mhz... perhaps tumbstoned with a 3.3uh(series)..
>
> Mike KC7NOA
>
> Its near impossible to search email and compose one at the same time
> on a DROID...
>
>
> ---
> To: UHFSDR@yahoogroups.com
> From: dave@...
> Date: Wed, 31 Oct 2012 13:16:45 -0700
> Subject: Re: [UHFSDR] need part
>
> That is L1 and the pads will accept either 0805 or 1210 or 1206.
> You could probably put a 0603 in there as well. If you are going to
> go below about 10 MHz, 100 nH is too small. Use 1uH or higher(my
> latest schematic shows 3.3 uH). If you are going to use both UHF and
> below 10 MHz, make sure the SRF of the coil is near or above your
> highest freq.
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> Dave - WB6DHW
> <http://wb6dhw.com> <http://wb6dhw.com>
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> On 10/31/2012 1:03 PM, Sid Boyce wrote:
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> In that space it looks like 0603 would do. I managed to fit one
> that's the size of a regular through hole 1/2W resistor.
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> Alan, if you are getting them I would like to have 2 from you and
> also 2 FST3257's.

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> I got some SN74CBT3257's from RS Somponents, resulting in ~60dBm
> noise floor and also no signals.
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> Alan ? W6ARH
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> Mobokits http://mobokits.stormwarning.org/
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> *From:*UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> [mailto:UHFSDR@yahoogroups.com] *On Behalf Of *MIKE DURKIN
> *Sent:* Wednesday, October 31, 2012 9:47 AM
> *To:* uhfsdr@yahoogroups.com <mailto:uhfsdr@yahoogroups.com>
> *Subject:* [UHFSDR] need part
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> Well my first UHFSDR board and started making popping noise
> again ... and since my Scope was back in working order ...
> traced my problem down to the MC33078. So I need another one ...
>
> If any one gas one for sale, please let me know ... I also am
> interested in a pair of 100nF inductors for the Rx upgrade ...
>
> Mike KC7NOA
>
>
>
>
>

1293. RE: [UHFSDR] need part

Yahoo group: UHFSDR
Date: 2012-11-01 04:24:54 UTC
From: MIKE DURKIN
Topic: 1283 Message: 1293

Yea ... did I ever mention I hate DroidX auto spell correct...

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Wed, 31 Oct 2012 17:02:06 -0700
Subject: Re: [UHFSDR] need part

Mike:

I just looked at the original message. It was that 100nF
Inductor that confused me(I assumed 100nH). R3 is a 0805. The
circuit has a 100nF plus a 1nF in parallel.

Dave - WB6DHW

<http://wb6dhw.com>

On 10/31/2012 4:00 PM, MIKE DURKIN wrote:

I was referring to what replaces R3(120ohm)
U4 ...

If My memory servers me correct ... a 100nF was used for
use to around 500mhz... perhaps tumbstoned with a
3.3uh(series)..

Mike KC7NOA

Its near impossible to search email and compose one at the
same time on a DROID...

To: UHFSDR@yahoogroups.com

From: dave@...

Date: Wed, 31 Oct 2012 13:16:45 -0700

Subject: Re: [UHFSDR] need part

That is L1 and the
pads will accept either 0805 or 1210 or 1206. You
could probably put a 0603 in there as well. If
you are going to go below about 10 MHz, 100 nH is
too small. Use 1uH or higher(my latest schematic
shows 3.3 uH). If you are going to use both UHF
and below 10 MHz, make sure the SRF of the coil is
near or above your highest freq.

Dave - WB6DHW

<http://wb6dhw.com>

On 10/31/2012 1:03 PM, Sid Boyce wrote:

In that space it
looks like 0603 would do. I managed to fit one
that's the size of a regular through hole 1/2W
resistor.

Alan, if you are getting them I would like to
have 2 from you and also 2 FST3257's.

I got some SN74CBT3257's from RS Somponents,
resulting in ~60dBm noise floor and also no
signals.

I'll Paypal as usual.

73 ... Sid.

On 31/10/12 17:23, The Silver Fox wrote:

I
can provide the MC33078. What form
factor do we need for the 100nF
inductors?
73,
Alan
– W6ARH

Mobokits
http://mobokits.stormwarning.org/
UHFSDR

Full Kit http://wb6dhw.com/For_Sale.html

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
On Behalf Of MIKE DURKIN

Sent: Wednesday, October
31, 2012 9:47 AM

To: uhfsdr@yahoogroups.com

Subject: [UHFSDR] need part

Well my
first UHFSDR board and started
making popping noise again ...
and since my Scope was back in
working order ... traced my
problem down to the MC33078. So
I need another one ...

If any one gas one for
sale, please let me know ... I
also am interested in a pair of
100nF inductors for the Rx
upgrade ...

Mike KC7NOA

1294. Si570BBA

Yahoo group: UHFSDR
Date: 2012-11-02 05:48:47 UTC
From: MIKE DURKIN
Topic: 1294 Message: 1294

I have a Si570BBA(1.41Ghz) im interested in selling ... Its unused.

Im asking 65$ plus shipping. Its my last high grade si570....

Mike KC7NOA

1295. RE: [UHFSDR] need part

Yahoo group: UHFSDR
Date: 2012-11-03 05:58:23 UTC
From: MIKE DURKIN
Topic: 1283 Message: 1295

ok, so where are we on this??

Replace R3 with a 100nH inductor? since the top end looks about 700Mhz i guess that small isnt needed ...
Im still interested in that MC33078 --

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: alan.r.hill@...
Date: Wed, 31 Oct 2012 13:58:56 -0700
Subject: RE: [UHFSDR] need part

OK. I will order inductors for the group but I need resolution on what value to buy. P. S. For some reason I did not get Sid’s message.73,Alan – W6ARH Mobokits http://mobokits.stormwarning.org/UHFSDR Full Kit http://wb6dhw.com/For_Sale.html From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Dave
Sent: Wednesday, October 31, 2012 1:17 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] need part That is L1 and the pads will accept either 0805 or 1210 or 1206. You could probably put a 0603 in there as well. If you are going to go below about 10 MHz, 100 nH is too small. Use 1uH or higher(my latest schematic shows 3.3 uH). If you are going to use both UHF and below 10 MHz, make sure the SRF of the coil is near or above your highest freq.

Dave - WB6DHW
<http://wb6dhw.com>

On 10/31/2012 1:03 PM, Sid Boyce wrote: In that space it looks like 0603 would do. I managed to fit one that's the size of a regular through hole 1/2W resistor.

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I'll Paypal as usual.
73 ... Sid.

On 31/10/12 17:23, The Silver Fox wrote: I can provide the MC33078. What form factor do we need for the 100nF inductors?73,Alan – W6ARH Mobokits http://mobokits.stormwarning.org/UHFSDR Full Kit http://wb6dhw.com/For_Sale.html From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of MIKE DURKIN
Sent: Wednesday, October 31, 2012 9:47 AM
To: uhfsdr@yahoogroups.com
Subject: [UHFSDR] need part Well my first UHFSDR board and started making popping noise again ... and since my Scope was back in working order ... traced my problem down to the

MC33078. So I need another one ...

If any one gas one for sale, please let me know ... I also am interested in a pair of 100nF inductors for the Rx upgrade ...

Mike KC7NOA

1296. RE: [UHFSDR] need part

Yahoo group: UHFSDR
Date: 2012-11-03 20:03:57 UTC
From: The Silver Fox
Topic: 1283 Message: 1296

I ordered 100 nH 0805 inductors which I should receive mid-week. I can sell you both chips but the shipment cost almost equals the cost of the chips. It looks like $3.50 will cover it.

73,

Alan - W6ARH

Mobokits http://mobokits.stormwarning.org/

UHFSDR Full Kit http://wb6dhw.com/For_Sale.html

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of MIKE DURKIN
Sent: Friday, November 02, 2012 10:58 PM
To: UHFSDR UHFSDR
Subject: RE: [UHFSDR] need part

ok, so where are we on this??

Replace R3 with a 100nH inductor? since the top end looks about 700Mhz i guess that small isnt needed ...
Im still interested in that MC33078 --

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: alan.r.hill@...
Date: Wed, 31 Oct 2012 13:58:56 -0700
Subject: RE: [UHFSDR] need part

OK. I will order inductors for the group but I need resolution on what value to buy.

P. S. For some reason I did not get Sid's message.

73,

Alan - W6ARH

Mobokits http://mobokits.stormwarning.org/

UHFSDR Full Kit http://wb6dhw.com/For_Sale.html

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Dave
Sent: Wednesday, October 31, 2012 1:17 PM

To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] need part

That is L1 and the pads will accept either 0805 or 1210 or 1206. You could probably put a 0603 in there as well. If you are going to go below about 10 MHz, 100 nH is too small. Use 1uH or higher(my latest schematic shows 3.3 uH). If you are going to use both UHF and below 10 MHz, make sure the SRF of the coil is near or above your highest freq.

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On 10/31/2012 1:03 PM, Sid Boyce wrote:

In that space it looks like 0603 would do. I managed to fit one that's the size of a regular through hole 1/2W resistor.

Alan, if you are getting them I would like to have 2 from you and also 2 FST3257's.

I got some SN74CBT3257's from RS Somponents, resulting in ~60dBm noise floor and also no signals.

I'll Paypal as usual.
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Alan - W6ARH

Mobokits http://mobokits.stormwarning.org/

UHFSDR Full Kit http://wb6dhw.com/For_Sale.html

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Sent: Wednesday, October 31, 2012 9:47 AM
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Subject: [UHFSDR] need part

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If any one gas one for sale, please let me know ... I also am interested in a pair of 100nF inductors for the Rx upgrade ...

Mike KC7NOA

1297. RE: [UHFSDR] need part

Yahoo group: UHFSDR
Date: 2012-11-03 20:29:50 UTC
From: MIKE DURKIN
Topic: 1283 Message: 1297

That's getting to be the norm these ... product<=shipping ...

Ill wait till the 100nH inductors arrive and get one mc33078 and two inductors ...

To: UHFSDR@yahoogroups.com
From: alan.r.hill@...
Date: Sat, 3 Nov 2012 13:03:57 -0700
Subject: RE: [UHFSDR] need part

I ordered 100 nH 0805 inductors which I should receive mid-week. I can sell you both chips but the shipment cost almost equals the cost of the chips. It looks like $3.50 will cover it.
73,Alan – W6ARH Mobokits http://mobokits.stormwarning.org/UHFSDR Full Kit http://wb6dhw.com/For_Sale.html From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of MIKE DURKIN
Sent: Friday, November 02, 2012 10:58 PM
To: UHFSDR UHFSDR
Subject: RE: [UHFSDR] need part ok, so where are we on this??

Replace R3 with a 100nH inductor? since the top end looks about 700Mhz i guess that small isnt needed ...
Im still interested in that MC33078 --

Mike KC7NOATo: UHFSDR@yahoogroups.com
From: alan.r.hill@...
Date: Wed, 31 Oct 2012 13:58:56 -0700
Subject: RE: [UHFSDR] need part

OK. I will order inductors for the group but I need resolution on what value to buy. P. S. For some reason I did not get Sid’s message.73,Alan – W6ARH Mobokits http://mobokits.stormwarning.org/UHFSDR Full Kit http://wb6dhw.com/For_Sale.html From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Dave
Sent: Wednesday, October 31, 2012 1:17 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] need part That is L1 and the pads will accept either 0805 or 1210 or 1206. You could probably put a 0603 in there as well. If you are going to go below about 10 MHz, 100 nH is too small. Use 1uH or higher(my latest schematic shows 3.3 uH). If you are going to use both UHF and below 10 MHz, make sure the SRF of the coil is near or above your highest freq.

Dave - WB6DHW
<http://wb6dhw.com>

On 10/31/2012 1:03 PM, Sid Boyce wrote: In that space it looks like 0603 would do. I managed to fit one that's the size of a regular through hole 1/2W resistor.

Alan, if you are getting them I would like to have 2 from you and also 2 FST3257's.

I got some SN74CBT3257's from RS Somponents, resulting in ~60dBm noise floor and also no signals.

I'll Paypal as usual.
73 ... Sid.

On 31/10/12 17:23, The Silver Fox wrote: I can provide the MC33078. What form factor do we need for the 100nF inductors?73,Alan – W6ARH Mobokits
http://mobokits.stormwarning.org/UHFSDR Full Kit http://wb6dhw.com/For_Sale.html From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of MIKE DURKIN
Sent: Wednesday, October 31, 2012 9:47 AM
To: uhfsdr@yahoogroups.com
Subject: [UHFSDR] need part Well my first UHFSDR board and started making popping noise again ... and since my Scope was back in working order ... traced my problem down to the MC33078. So I need another one ...

If any one gas one for sale, please let me know ... I also am interested in a pair of 100nF inductors for the Rx upgrade ...

Mike KC7NOA

1298. Re: [UHFSDR] need part

Yahoo group: UHFSDR
Date: 2012-11-03 23:45:24 UTC
From: Sid Boyce
Topic: 1283 Message: 1298

Hi Alan,
2 100nH and 2 FST3257's if you can spare them for me.
73 ... Sid.

On 03/11/12 20:03, The Silver Fox wrote:
>
> I ordered 100 nH 0805 inductors which I should receive mid-week. I
> can sell you both chips but the shipment cost almost equals the cost
> of the chips. It looks like $3.50 will cover it.
>
> 73,
>
> Alan -- W6ARH
>
> Mobokits http://mobokits.stormwarning.org/
>
> UHFSDR Full Kit http://wb6dhw.com/For_Sale.html
>
> *From:*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] *On
> Behalf Of *MIKE DURKIN
> *Sent:* Friday, November 02, 2012 10:58 PM
> *To:* UHFSDR UHFSDR
> *Subject:* RE: [UHFSDR] need part
>
> ok, so where are we on this??
>
> Replace R3 with a 100nH inductor? since the top end looks about 700Mhz
> i guess that small isnt needed ...
> Im still interested in that MC33078 --
>
> Mike KC7NOA
>
> ---
>
> To: UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> From: alan.r.hill@... <mailto:alan.r.hill@...>
> Date: Wed, 31 Oct 2012 13:58:56 -0700
> Subject: RE: [UHFSDR] need part
>
> OK. I will order inductors for the group but I need resolution on what
> value to buy.
>
> P. S. For some reason I did not get Sid's message.
>
> 73,

>
> Alan -- W6ARH
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> Mobokits http://mobokits.stormwarning.org/
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>
> *From:*UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> [mailto:UHFSDR@yahoogroups.com] *On Behalf Of *Dave
> *Sent:* Wednesday, October 31, 2012 1:17 PM
> *To:* UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> *Subject:* Re: [UHFSDR] need part
>
> That is L1 and the pads will accept either 0805 or 1210 or 1206. You
> could probably put a 0603 in there as well. If you are going to go
> below about 10 MHz, 100 nH is too small. Use 1uH or higher(my latest
> schematic shows 3.3 uH). If you are going to use both UHF and below
> 10 MHz, make sure the SRF of the coil is near or above your highest freq.
>
> Dave - WB6DHW
> <http://wb6dhw.com> <http://wb6dhw.com>
>
> On 10/31/2012 1:03 PM, Sid Boyce wrote:
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> In that space it looks like 0603 would do. I managed to fit one
> that's the size of a regular through hole 1/2W resistor.
>
> Alan, if you are getting them I would like to have 2 from you and
> also 2 FST3257's.
>
> I got some SN74CBT3257's from RS Somponents, resulting in ~60dBm
> noise floor and also no signals.
>
> I'll Paypal as usual.
> 73 ... Sid.
>
> On 31/10/12 17:23, The Silver Fox wrote:
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> I can provide the MC33078. What form factor do we need for
> the 100nF inductors?
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> 73,
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> Alan -- W6ARH
>
> Mobokits http://mobokits.stormwarning.org/
>
> UHFSDR Full Kit http://wb6dhw.com/For_Sale.html
>
> *From:*UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>

> [mailto:UHFSDR@yahoogroups.com] *On Behalf Of *MIKE DURKIN
> *Sent:* Wednesday, October 31, 2012 9:47 AM
> *To:* uhfsdr@yahoogroups.com <mailto:uhfsdr@yahoogroups.com>
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>
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> If any one gas one for sale, please let me know ... I also am
> interested in a pair of 100nF inductors for the Rx upgrade ...
>
> Mike KC7NOA
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1299. The Warthog

Yahoo group: UHFSDR
Date: 2012-11-04 14:33:37 UTC
From: rhillard@austin.rr.com
Topic: 1299 Message: 1299

In the Photos section, I have uploaded a few pictures of my IF Radio transceiver that uses the UHFSDR and SDR2GO boards.

The transceiver acts as the IF Radio for my 33cm and 23cm transverters, and also is a transceiver for the 222 MHz and 432 MHz bands.

This is a 'stand alone' radio (no computer required), using the SDR2GO board developed by members of the Austin QRP club.

More pictures to follow. . . . .

Bob WA6UFQ

1300. RE: [softrock40] Si570BBA

Yahoo group: UHFSDR
Date: 2012-11-04 18:51:50 UTC
From: MIKE DURKIN
Topic: 1294 Message: 1300

Couple bites .. no takers, LVDS good for that UHF project!!!

To: uhfsdr@yahoogroups.com; sdr-radio-com@yahoogroups.com; softrock40@yahoogroups.com
From: Patriot121@...
Date: Thu, 1 Nov 2012 22:48:47 -0700
Subject: [softrock40] Si570BBA

I have a Si570BBA(1.41Ghz) im interested in selling ... Its unused.

Im asking 65$ plus shipping. Its my last high grade si570....

Mike KC7NOA

1301. SOFTROCK SDR TRANSCEIVERS ON EBAY

Yahoo group: UHFSDR
Date: 2012-11-07 11:36:36 UTC
From: gvastianos
Topic: 1301 Message: 1301

http://www.ebay.com/itm/Transceiver-SDR-Softrock-RXTX-v6-2-160m-KIT-Software-Defined-Radio-/300811927846?pt=US_Ham_Radio_Transceivers&hash=item4609c9c126

http://www.ebay.com/itm/Transceiver-SDR-Softrock-RXTX-v6-2-40m-80m-KIT-Software-Defined-Radio-/300811925089?pt=US_Ham_Radio_Transceivers&hash=item4609c9b661

http://www.ebay.com/itm/Transceiver-SDR-Softrock-RXTX-v6-2-15m-17m-KIT-Software-Defined-Radio-/300811930230?pt=US_Ham_Radio_Transceivers&hash=item4609c9ca76

http://www.ebay.com/itm/Transceiver-SDR-Softrock-RXTX-v6-2-20m-30m-Software-Defined-Radio-/300811931972?pt=US_Ham_Radio_Transceivers&hash=item4609c9d144

http://www.ebay.com/itm/PCB-for-Bitx-Multiband-Transceiver-G6LBQ-design-/300811935656?pt=US_Ham_Radio_Transceivers&hash=item4609c9dfa8

1302. RE: [UHFSDR] need part

Yahoo group: UHFSDR
Date: 2012-11-08 12:03:31 UTC
From: MIKE DURKIN
Topic: 1283 Message: 1302

Was that 3.50$ for 2@100nH inductors and one mc33078?

Mike KC7NOA

To: uhfsdr@yahoogroups.com
From: Patriot121@...
Date: Sat, 3 Nov 2012 13:29:50 -0700
Subject: RE: [UHFSDR] need part

That's getting to be the norm these ... product<=shipping ...

Ill wait till the 100nH inductors arrive and get one mc33078 and two inductors ...

To: UHFSDR@yahoogroups.com
From: alan.r.hill@...
Date: Sat, 3 Nov 2012 13:03:57 -0700
Subject: RE: [UHFSDR] need part

I ordered 100 nH 0805 inductors which I should receive mid-week. I can sell you both chips but the shipment cost almost equals the cost of the chips. It looks like $3.50 will cover it.
73,
Alan – W6ARH Mobokits http://mobokits.stormwarning.org/UHFSDR Full Kit http://wb6dhw.com/For_Sale.html From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of MIKE DURKIN
Sent: Friday, November 02, 2012 10:58 PM
To: UHFSDR UHFSDR
Subject: RE: [UHFSDR] need part ok, so where are we on this??

Replace R3 with a 100nH inductor? since the top end looks about 700Mhz i guess that small isnt needed ...
Im still interested in that MC33078 --

Mike KC7NOATo: UHFSDR@yahoogroups.com
From: alan.r.hill@...
Date: Wed, 31 Oct 2012 13:58:56 -0700
Subject: RE: [UHFSDR] need part

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Sent: Wednesday, October 31, 2012 1:17 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] need part That is L1 and the pads will accept either 0805 or 1210 or 1206. You could probably put a 0603 in there as well. If you are going to go below about 10 MHz, 100 nH is too small. Use 1uH or higher(my latest schematic shows 3.3 uH). If you are

going to use both UHF and below 10 MHz, make sure the SRF of the coil is near or above your highest freq.

Dave - WB6DHW
<http://wb6dhw.com>

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Alan, if you are getting them I would like to have 2 from you and also 2 FST3257's.

I got some SN74CBT3257's from RS Somponents, resulting in ~60dBm noise floor and also no signals.

I'll Paypal as usual.
73 ... Sid.

On 31/10/12 17:23, The Silver Fox wrote: I can provide the MC33078. What form factor do we need for the 100nF inductors?73,Alan – W6ARH Mobokits
http://mobokits.stormwarning.org/UHFSDR Full Kit http://wb6dhw.com/For_Sale.html From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of MIKE DURKIN
Sent: Wednesday, October 31, 2012 9:47 AM
To: uhfsdr@yahoogroups.com
Subject: [UHFSDR] need part Well my first UHFSDR board and started making popping noise again ... and since my Scope was back in working order ... traced my problem down to the MC33078. So I need another one ...

If any one gas one for sale, please let me know ... I also am interested in a pair of 100nF inductors for the Rx upgrade ...

Mike KC7NOA

1303. RE: UHFSDR

Yahoo group: UHFSDR
Date: 2012-11-11 00:37:43 UTC
From: The Silver Fox
Topic: 1303 Message: 1303

Johannes,
Yes. I am packaging AS169s as a substitute for the HMC554s. I am not aware of any pin out changes resulting from that substitution. In the BOM there are four choices for the chip and I was unable to get HMC554s. The identification template has not been updated hence the possible confusion.
If your experience is true it will be helpful to others. Your report is the first I've heard of a problem with the inventory.
73,
Alan - W6ARH

-----Original Message-----
From: Johannes Bauer [mailto:JohannesBauer@gmx.de]
Sent: Saturday, November 10, 2012 3:25 PM
To: The Silver Fox
Subject: Re: UHFSDR

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

Hi Alan,

has taken a few months until I had the time to build the UHFSDR, and I don't know if this Info is going to be helpful for you or if you already know: I'm currently at step ~200 and has a device marked "U2,
U7 HMC554 (2)". I thought that was a typo and proceeded as with the HMC544. However, after builining it, it failed tests (inverted output). Now looking closely (should have done it before...), the component marking says S169, so I'm very much guessing you packed some AS169 in a HMC544 pacakge. Just saying because maybe others are confused by the mixup.

Are there maybe other errata or is there a site that I can check to see user build experiences?

Thanks again for the great kit, really excited to see what it can do, Best regards,
Johannes

On 01.05.2012 20:05, The Silver Fox wrote:
> Sorry - yes, paypal. All parts are included except external
> connection materials. No parts are needed in addition to what I
> provide. 73, Alan - W6ARH

- --
"A PC without Windows is like a chocolate cake without mustard."

Johannes Bauer
Jahnstr. 30
88677 Markdorf
-----BEGIN PGP SIGNATURE-----

Version: GnuPG v2.0.19 (GNU/Linux)
Comment: Using GnuPG with Mozilla - http://www.enigmail.net/

iEYEARECAAYFAlCe4jwACgkQQ+lBREs9faD7HQCdFiIH548WRSypc+41KmZ3fv5i
V5sAn3n7aNwvehLSUPNrA40SgQd5QJd+
=salK
-----END PGP SIGNATURE-----

1304. Re: [UHFSDR] RE: UHFSDR

Yahoo group: UHFSDR
Date: 2012-11-11 01:01:47 UTC
From: Heinrich Schnorltz
Topic: 1303 Message: 1304

Hi Alan,

first, sorry for responding from a different account -- I can only post to the list from within Yahoo (and am registeredered here).

I should have looked more closely at the chip. But anyways, I've run into some other trouble (and this is also why I'm posting to the list, I don't want to bother you exclusively but maybe someone else also knows the solution).

So I've completed everything until step 195 and am using the AS169. H5-2/H5-3 are shorted. When I do the testing, U2 works as expected (i.e. 197, 198, 201, 202 OK), but the U7 is inverted. That is, in 199/200 there is Low/High the expected result, but I get High/Low. When applying 5V to P2-1, it switches (but is again wrong).

Looking at the schematic I'm a bit puzzled, so maybe someone could help me here: Since U2 is working as expected, T=High and R=Low. TA is expected to be Low (but is High in my case). TA is the output of U6B. It receives Low on 4 and High on 5. I'm guessing the High on 5 is expected (the line is marked +5VF, I'm guessing this is an implicit connection with identical netnames), which would mean pin 4 of the 7400 would need to be Low to get the desired result (pin 6 Low). But since pin 2 of the 7400 is also High (over H5-2/H5-3 and R64 to +5VF), this would mean pin 1 of the 7400 would need to be Low. This is only the case when I short H4 (but this is not part of the instructions, which I left it open). The pullup R58 thus causes pin 1 of the 7400 to be High.

I'm guessing I'm missing something very trivial here. Could somebody maybe enlighten me on what I'm doing wrong?

Thanks in advance,
Best regards,
Johannes

From: The Silver Fox <alan.r.hill@...>
To: 'Johannes Bauer' <JohannesBauer@...>
Cc: UHFSDR@yahoogroups.com
Sent: Sunday, November 11, 2012 1:37 AM
Subject: [UHFSDR] RE: UHFSDR

Johannes,
Yes. I am packaging AS169s as a substitute for the HMC554s. I am not aware of any pin out changes resulting from that substitution. In the BOM there are four choices for the chip and I was unable to get HMC554s. The identification template has not been updated hence the possible confusion.
If your experience is true it will be helpful to others. Your report is the first I've heard of a problem with the inventory.
73,
Alan - W6ARH

1305. Re: [UHFSDR] RE: UHFSDR

Yahoo group: UHFSDR
Date: 2012-11-11 01:29:09 UTC
From: Sid Boyce
Topic: 1303 Message: 1305

Whatever you do, steer well clear of AS157's if they are still listed.

I suspect the pinout was just a copy of the AS169's and they will run
you ragged as no strapping of H5 will get you both RX and TX.

After many months of chasing my tail around the circuit with 2 UHFSDR's
I changed to AS169's and everything then worked as it should.
73 ... Sid.

On 11/11/12 00:37, The Silver Fox wrote:
>
> Johannes,
> Yes. I am packaging AS169s as a substitute for the HMC554s. I am not
> aware of any pin out changes resulting from that substitution. In the
> BOM there are four choices for the chip and I was unable to get
> HMC554s. The identification template has not been updated hence the
> possible confusion.
> If your experience is true it will be helpful to others. Your report
> is the first I've heard of a problem with the inventory.
> 73,
> Alan - W6ARH
>
> -----Original Message-----
> From: Johannes Bauer [mailto:JohannesBauer@...
> <mailto:JohannesBauer%40gmx.de>]
> Sent: Saturday, November 10, 2012 3:25 PM
> To: The Silver Fox
> Subject: Re: UHFSDR
>
> -----BEGIN PGP SIGNED MESSAGE-----
> Hash: SHA1
>
> Hi Alan,
>
> has taken a few months until I had the time to build the UHFSDR, and I
> don't know if this Info is going to be helpful for you or if you
> already know: I'm currently at step ~200 and has a device marked "U2,
> U7 HMC554 (2)". I thought that was a typo and proceeded as with the
> HMC544. However, after builining it, it failed tests (inverted
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> component marking says S169, so I'm very much guessing you packed some
> AS169 in a HMC544 pacakge. Just saying because maybe others are
> confused by the mixup.
>
> Are there maybe other errata or is there a site that I can check to
> see user build experiences?

>
> Thanks again for the great kit, really excited to see what it can do,
> Best regards, Johannes
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> On 01.05.2012 20:05, The Silver Fox wrote:
> > Sorry - yes, paypal. All parts are included except external
> > connection materials. No parts are needed in addition to what I
> > provide. 73, Alan - W6ARH
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> - --
> "A PC without Windows is like a chocolate cake without mustard."
>
> Johannes Bauer
> Jahnstr. 30
> 88677 Markdorf
> -----BEGIN PGP SIGNATURE-----
> Version: GnuPG v2.0.19 (GNU/Linux)
> Comment: Using GnuPG with Mozilla - http://www.enigmail.net/
>
> iEYEARECAAYFAlCe4jwACgkQQ+lBREs9faD7HQCdFiIH548WRSypc+41KmZ3fv5i
> V5sAn3n7aNwvehLSUPNrA40SgQd5QJd+
> =salK
> -----END PGP SIGNATURE-----
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1306. ODroidX purchase

Yahoo group: UHFSDR
Date: 2012-11-11 23:42:53 UTC
From: MIKE DURKIN
Topic: 1306 Message: 1306

Has anyone here -- state side-- bought a ODroidX? Im wondering what taxes and duty and the like are added to it?

Mike KC7NOA

1307. RE: [UHFSDR] ODroidX purchase

Yahoo group: UHFSDR
Date: 2012-11-12 00:33:17 UTC
From: The Silver Fox
Topic: 1306 Message: 1307

Mike,

I haven't bought one but it seems too pricy for my justifying a purchase.

73,

Alan - W6ARH

P.S. I will get a price for the parts for you tomorrow.

Mobokits http://mobokits.stormwarning.org/

UHFSDR Full Kit http://wb6dhw.com/For_Sale.html

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of MIKE DURKIN
Sent: Sunday, November 11, 2012 3:43 PM
To: uhfsdr@yahoogroups.com; softrock40@yahoogroups.com; aqrp@yahoogroups.com
Subject: [UHFSDR] ODroidX purchase

Has anyone here -- state side-- bought a ODroidX? Im wondering what taxes and duty and the like are added to it?

Mike KC7NOA

1308. Re: [UHFSDR] ODroidX purchase

Yahoo group: UHFSDR
Date: 2012-11-12 02:25:52 UTC
From: w9amr@aol.com
Topic: 1306 Message: 1308

I bought one. Shipping included It cost 159.00. I have yet to have time to tinker with it yet.

Larry W9AMR

In a message dated 11/11/2012 7:33:18 P.M. Eastern Standard Time, alan.r.hill@... writes:

Mike,
I haven't bought one but it seems too pricy for my justifying a purchase.
73,
Alan – W6ARH
P.S. I will get a price for the parts for you tomorrow.
Mobokits _http://mobokits.stormwarning.org/_
(http://mobokits.stormwarning.org/)
UHFSDR Full Kit _http://wb6dhw.com/For_Sale.html_
(http://wb6dhw.com/For_Sale.html)

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of MIKE DURKIN
Sent: Sunday, November 11, 2012 3:43 PM
To: uhfsdr@yahoogroups.com; softrock40@yahoogroups.com; aqrp@yahoogroups.com
Subject: [UHFSDR] ODroidX purchase

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Mike KC7NOA

1309. RE: [UHFSDR] ODroidX purchase

Yahoo group: UHFSDR
Date: 2012-11-12 02:43:09 UTC
From: MIKE DURKIN
Topic: 1306 Message: 1309

Sooo ... tax &duty shipping was 30$ ... I guess that's not bad

To: UHFSDR@yahoogroups.com
From: w9amr@...
Date: Sun, 11 Nov 2012 21:25:52 -0500
Subject: Re: [UHFSDR] ODroidX purchase

I bought one. Shipping included It cost 159.00. I have yet to have
time to tinker with it yet.

Larry W9AMR

In a message dated 11/11/2012 7:33:18 P.M. Eastern Standard Time,
alan.r.hill@...m writes:

Mike,

I haven’t bought
one but it seems too pricy for my justifying a purchase.
73,
Alan –
W6ARH
P.S. I
will get a price for the parts for you tomorrow.

Mobokits http://mobokits.stormwarning.org/
UHFSDR Full
Kit http://wb6dhw.com/For_Sale.html

From: UHFSDR@yahoogroups.com
[mailto:UHFSDR@yahoogroups.com] On Behalf Of MIKE
DURKIN
Sent: Sunday, November 11, 2012 3:43 PM
To:
uhfsdr@yahoogroups.com; softrock40@yahoogroups.com;
aqrp@yahoogroups.com
Subject: [UHFSDR] ODroidX
purchase

H as anyone here -- state side-- bought a ODroidX? Im
wondering what taxes and duty and the like are added to it?

Mike KC7NOA

1310. RE: [UHFSDR] ODroidX purchase

Yahoo group: UHFSDR
Date: 2012-11-12 04:14:01 UTC
From: MIKE DURKIN
Topic: 1306 Message: 1310

Any one know of a similar performance micro computer?
Dosent really matter what type cpu ... just real small with stereo line in / out (not a deal breaker) but of similar or less cost.
Runs on dc -- still not a deal breaker ....

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: alan.r.hill@...
Date: Sun, 11 Nov 2012 16:33:17 -0800
Subject: RE: [UHFSDR] ODroidX purchase

Mike,
I haven’t bought one but it seems too pricy for my justifying a purchase.73,Alan – W6ARHP.S. I will get a price for the parts for you tomorrow. Mobokits http://mobokits.stormwarning.org/UHFSDR Full Kit http://wb6dhw.com/For_Sale.html From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of MIKE DURKIN
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Subject: [UHFSDR] ODroidX purchase Has anyone here -- state side-- bought a ODroidX? Im wondering what taxes and duty and the like are added to it?

Mike KC7NOA

1311. Re: [UHFSDR] ODroidX purchase

Yahoo group: UHFSDR
Date: 2012-11-13 02:01:42 UTC
From: Sid Boyce
Topic: 1306 Message: 1311

I have had mine running with hiqsdr-server, dspserver and QtRadio for
some weeks now.

Today I built an updated kernel for it and it's up and running.

The reason I needed a new kernel - the kernel in the downloaded image
has a kernel that doesn't support USB sound cards and the sources are
not available to allow building the required module so I decided to roll
my own based on an up-level Linaro git source.
The build was the same as for a x86/x86_64 kernel.
The linux-headers, linux-image and uImage are on
https://sites.google.com/site/sidboyceg3vbv/tasks

I hooked up a 64GB USB HD to give me enough space for the kernel sources
and the build just progressed as normal.
Having 4 CPU cores, it can take on big compile jobs.

There seems to be a way to boot off a HD, rather boot would initiate on
the SD card and hand over to the HD. I need to digest the full procedure
before I try it.
73 ... Sid.

On 12/11/12 02:25, w9amr@... wrote:
>
> I bought one. Shipping included It cost 159.00. I have yet to have
> time to tinker with it yet.
> Larry W9AMR
> In a message dated 11/11/2012 7:33:18 P.M. Eastern Standard Time,
> alan.r.hill@... writes:
>
> Mike,
>
> I haven?EUR^(TM)t bought one but it seems too pricy for my
> justifying a purchase.
>
> 73,
>
> Alan ?EUR" W6ARH
>
> P.S. I will get a price for the parts for you tomorrow.
>
> Mobokits http://mobokits.stormwarning.org/
>
> UHFSDR Full Kit http://wb6dhw.com/For_Sale.html
>
> *From:*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] *On

> Behalf Of *MIKE DURKIN
> *Sent:* Sunday, November 11, 2012 3:43 PM
> *To:* uhfsdr@yahoogroups.com; softrock40@yahoogroups.com;
> aqrp@yahoogroups.com
> *Subject:* [UHFSDR] ODroidX purchase
>
> H as anyone here -- state side-- bought a ODroidX? Im wondering
> what taxes and duty and the like are added to it?
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> Mike KC7NOA
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1312. RE: [UHFSDR] ODroidX purchase

Yahoo group: UHFSDR
Date: 2012-11-13 04:54:42 UTC
From: MIKE DURKIN
Topic: 1306 Message: 1312

Let me know how it goes ... I want to use the onboard sound if possible ...

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: sboyce@...
Date: Tue, 13 Nov 2012 02:01:42 +0000
Subject: Re: [UHFSDR] ODroidX purchase

I have had mine running with
hiqsdr-server, dspserver and QtRadio for some weeks now.

Today I built an updated kernel for it and it's up and running.

The reason I needed a new kernel - the kernel in the downloaded
image has a kernel that doesn't support USB sound cards and the
sources are not available to allow building the required module so
I decided to roll my own based on an up-level Linaro git source.

The build was the same as for a x86/x86_64 kernel.

The linux-headers, linux-image and uImage are on
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I hooked up a 64GB USB HD to give me enough space for the kernel
sources and the build just progressed as normal.

Having 4 CPU cores, it can take on big compile jobs.

There seems to be a way to boot off a HD, rather boot would
initiate on the SD card and hand over to the HD. I need to digest
the full procedure before I try it.

73 ... Sid.

On 12/11/12 02:25, w9amr@... wrote:

I bought one. Shipping included It cost 159.00. I
have yet to have time to tinker with it yet.

Larry W9AMR

In a message dated 11/11/2012 7:33:18 P.M. Eastern
Standard Time, alan.r.hill@gmail.com writes:

Mike,
I havenâ€™t
bought one but it seems too pricy for my
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Alan â€“ W6ARH
P.S. I will get a
price for the parts for you tomorrow.

Mobokits http://mobokits.stormwarning.org/
UHFSDR Full Kit http://wb6dhw.com/For_Sale.html

From:
UHFSDR@yahoogroups.com
[mailto:UHFSDR@yahoogroups.com] On
Behalf Of MIKE DURKIN

Sent: Sunday, November 11, 2012
3:43 PM

To: uhfsdr@yahoogroups.com;
softrock40@yahoogroups.com;
aqrp@yahoogroups.com

Subject: [UHFSDR] ODroidX
purchase

H as anyone here --
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wondering what taxes and duty and the
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1313. Re: [UHFSDR] ODroidX purchase

Yahoo group: UHFSDR
Date: 2012-11-13 11:27:22 UTC
From: Sid Boyce
Topic: 1306 Message: 1313

Hi Mike,
I haven't checked what the max samplerate is spec'd at for the on-board sound as the HiQSDR only needs a sound card for Mic/SPKR.

Any tests I do will most likely be with the E-MU 0404 USB used for I-Q where it will do 192K samplerate or UHFSDR+SDR-Widget. I'll see if the ODROID-X will handle that amount of USB traffic.
73 ... Sid.

On 13/11/12 04:54, MIKE DURKIN wrote:
>
> Let me know how it goes ... I want to use the onboard sound if
> possible ...
>
> Mike KC7NOA
>
> ---
> To: UHFSDR@yahoogroups.com
> From: sboyce@...
> Date: Tue, 13 Nov 2012 02:01:42 +0000
> Subject: Re: [UHFSDR] ODroidX purchase
>
> I have had mine running with hiqsdr-server, dspserver and QtRadio for
> some weeks now.
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> Today I built an updated kernel for it and it's up and running.
>
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> has a kernel that doesn't support USB sound cards and the sources are
> not available to allow building the required module so I decided to
> roll my own based on an up-level Linaro git source.
> The build was the same as for a x86/x86_64 kernel.
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> I hooked up a 64GB USB HD to give me enough space for the kernel
> sources and the build just progressed as normal.
> Having 4 CPU cores, it can take on big compile jobs.
>
> There seems to be a way to boot off a HD, rather boot would initiate
> on the SD card and hand over to the HD. I need to digest the full
> procedure before I try it.
> 73 ... Sid.
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> On 12/11/12 02:25, w9amr@... <mailto:w9amr@...> wrote:

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>
> I bought one. Shipping included It cost 159.00. I have yet to
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> alan.r.hill@... <mailto:alan.r.hill@...> writes:
>
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> Mike,
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> I haven?EUR^(TM)t bought one but it seems too pricy for my
> justifying a purchase.
>
> 73,
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> Alan ?EUR" W6ARH
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> Mobokits http://mobokits.stormwarning.org/
>
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>
> *From:*UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> [mailto:UHFSDR@yahoogroups.com] *On Behalf Of *MIKE DURKIN
> *Sent:* Sunday, November 11, 2012 3:43 PM
> *To:* uhfsdr@yahoogroups.com <mailto:uhfsdr@yahoogroups.com>;
> softrock40@yahoogroups.com
> <mailto:softrock40@yahoogroups.com>; aqrp@yahoogroups.com
> <mailto:aqrp@yahoogroups.com>
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> H as anyone here -- state side-- bought a ODroidX? Im
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1314. RE: [UHFSDR] ODroidX purchase

Yahoo group: UHFSDR
Date: 2012-11-13 18:01:12 UTC
From: MIKE DURKIN
Topic: 1306 Message: 1314

I think they think I remember it being not that special ... 16bit 48khz(stereo) 96khz mono ...@96db floor...

Workable but nothing special...
Mike

To: UHFSDR@yahoogroups.com
From: sboyce@...
Date: Tue, 13 Nov 2012 11:27:22 +0000
Subject: Re: [UHFSDR] ODroidX purchase

Hi Mike,

I haven't checked what the max samplerate is spec'd at for the on-board sound as the HiQSDR only needs a sound card for Mic/SPKR.

Any tests I do will most likely be with the E-MU 0404 USB used for I-Q where it will do 192K samplerate or UHFSDR+SDR-Widget. I'll see if the ODROID-X will handle that amount of USB traffic.

73 ... Sid.

On 13/11/12 04:54, MIKE DURKIN wrote:

Let me know how it goes ... I want to use the onboard sound if possible ...

Mike KC7NOA

To: UHFSDR@yahoogroups.com

From: sboyce@...

Date: Tue, 13 Nov 2012 02:01:42 +0000

Subject: Re: [UHFSDR] ODroidX purchase

I have had mine running with hiqsdr-server, dspserver and QtRadio for some weeks now.

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I hooked up a 64GB USB HD to give me enough space
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to the HD. I need to digest the full procedure
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On 12/11/12 02:25, w9amr@...
wrote:

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P.M. Eastern Standard Time, alan.r.hill@...m
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I havenâ€™t bought one but it
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73,
Alan
â€“ W6ARH
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I will get a price for the parts
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From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
On Behalf Of MIKE
DURKIN

Sent: Sunday,
November 11, 2012 3:43 PM

To: uhfsdr@yahoogroups.com; softrock40@yahoogroups.com;
aqrp@yahoogroups.com

Subject: [UHFSDR]
ODroidX purchase

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Im wondering what taxes
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1315. Re: [UHFSDR] ODroidX purchase

Yahoo group: UHFSDR
Date: 2012-11-13 19:54:05 UTC
From: Sid Boyce
Topic: 1306 Message: 1315

|OK,
Pretty standard then, much what I expected.
73 ... Sid.

On 13/11/12 18:01, MIKE DURKIN wrote:
>
> I think they think I remember it being not that special ... 16bit
> 48khz(stereo) 96khz mono ...@96db floor...
>
> Workable but nothing special...
> Mike
>
> ---
> To: UHFSDR@yahoogroups.com
> From: sboyce@...
> Date: Tue, 13 Nov 2012 11:27:22 +0000
> Subject: Re: [UHFSDR] ODroidX purchase
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> Hi Mike,
> I haven't checked what the max samplerate is spec'd at for the
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> Any tests I do will most likely be with the E-MU 0404 USB used for I-Q
> where it will do 192K samplerate or UHFSDR+SDR-Widget. I'll see if the
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> To: UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> From: sboyce@... <mailto:sboyce@...>
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> Subject: Re: [UHFSDR] ODroidX purchase
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> On 12/11/12 02:25, w9amr@... <mailto:w9amr@...> wrote:
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> *From:*UHFSDR@yahoogroups.com
> <mailto:UHFSDR@yahoogroups.com>
> [mailto:UHFSDR@yahoogroups.com] *On Behalf Of *MIKE DURKIN
> *Sent:* Sunday, November 11, 2012 3:43 PM
> *To:* uhfsdr@yahoogroups.com
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1316. Re: [UHFSDR] ODroidX purchase

Yahoo group: UHFSDR
Date: 2012-11-13 19:59:13 UTC
From: mleech@ripnet.com
Topic: 1306 Message: 1316
Attachments: 1 described; binary payloads are missing from this source WARC

On 13 Nov 2012 14:54, Sid Boyce wrote:

> |OK,
> Pretty standard
then, much what I expected.
> 73 ... Sid.
>
>

The rPI can
easily handle 1Msps if it's just forwarding over the network. I'd be
surprised if ODROID-X were *less* capable.

1317. RE: [UHFSDR] ODroidX purchase

Yahoo group: UHFSDR
Date: 2012-11-14 05:01:25 UTC
From: MIKE DURKIN
Topic: 1306 Message: 1317
Attachments: 1 described; binary payloads are missing from this source WARC

Max98090 is its codec ...

To: uhfsdr@yahoogroups.com
CC: uhfsdr@yahoogroups.com
From: mleech@...
Date: Tue, 13 Nov 2012 14:59:13 -0500
Subject: Re: [UHFSDR] ODroidX purchase

On 13 Nov 2012 14:54, Sid Boyce wrote:

|OK,
Pretty standard then, much what I expected.
73 ... Sid.

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1318. Re: [UHFSDR] ODroidX purchase

Yahoo group: UHFSDR
Date: 2012-11-14 12:11:06 UTC
From: Sid Boyce
Topic: 1306 Message: 1318
Attachments: 1 described; binary payloads are missing from this source WARC

Thanks Mike,
I had a look at the pdf and it confirms 96K capable.

Pascal has connected it for I-Q and he gets an error, cause yet to be determined.
[2012-11-14 10:53:51] starting audio stream at rate 8000 channels 1 bufsize 2000 encoding 0 micEncoding 0
HARDWARE DIRECTED: message: '*hardware?'
response to STAR message: [Error: Invalid Command]
Unknown question: *hardware? Error: Invalid Command
[2012-11-14 10:53:51] Spectrum fps set to = '15'

On 14/11/12 05:01, MIKE DURKIN wrote:
>
> Max98090 is its codec ...
>
> ---
> To: uhfsdr@yahoogroups.com
> CC: uhfsdr@yahoogroups.com
> From: mleech@...
> Date: Tue, 13 Nov 2012 14:59:13 -0500
> Subject: Re: [UHFSDR] ODroidX purchase
>
> On 13 Nov 2012 14:54, Sid Boyce wrote:
>
>
> |OK,
> Pretty standard then, much what I expected.
> 73 ... Sid.
>
>
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Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
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1319. RE: [UHFSDR] ODroidX purchase

Yahoo group: UHFSDR
Date: 2012-11-14 15:00:08 UTC
From: MIKE DURKIN
Topic: 1306 Message: 1319
Attachments: 1 described; binary payloads are missing from this source WARC

Are there drivers writen for sound yet?

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: sboyce@...
Date: Wed, 14 Nov 2012 12:11:06 +0000
Subject: Re: [UHFSDR] ODroidX purchase

Thanks Mike,

I had a look at the pdf and it confirms 96K capable.

Pascal has connected it for I-Q and he gets an error, cause yet to
be determined.

[2012-11-14 10:53:51] starting audio stream at rate 8000 channels
1 bufsize 2000 encoding 0 micEncoding 0

HARDWARE DIRECTED: message: '*hardware?'

response to STAR message: [Error: Invalid Command]

Unknown question: *hardware? Error: Invalid Command

[2012-11-14 10:53:51] Spectrum fps set to = '15'

On 14/11/12 05:01, MIKE DURKIN wrote:

Max98090 is its codec ...

To: uhfsdr@yahoogroups.com

CC: uhfsdr@yahoogroups.com

From: mleech@ripnet.com

Date: Tue, 13 Nov 2012 14:59:13 -0500

Subject: Re: [UHFSDR] ODroidX purchase

On 13 Nov 2012 14:54, Sid Boyce wrote:

|OK,

Pretty standard then, much what I expected.

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1320. Re: [UHFSDR] ODroidX purchase

Yahoo group: UHFSDR
Date: 2012-11-14 15:32:47 UTC
From: Sid Boyce
Topic: 1306 Message: 1320
Attachments: 1 described; binary payloads are missing from this source WARC

There is a sound driver for the on-board sound in the supplied image but
none for USB sound.

I used the Linaro 3.6.6 kernel git source and configured USB sound.
root@ODROID-X_G3VBV:/# cat /proc/asound/cards
0 [hkdkmax98090]: hkdk-max98090 - hkdk-max98090
hkdk-max98090
1 [USB]: USB-Audio - E-MU 0404 | USB
E-MU Systems, Inc. E-MU 0404 | USB at
usb-s5p-ehci-2.1.3.3, high speed

My kernel deb packages are at
https://sites.google.com/site/sidboyceg3vbv/tasks

I built the kernel on the ODROID-X so the files can be installed with
"dpkg -i".

There is also a uImage file that has to go on to partition 2 so it will
boot the 3.6.6 kernel but it can't be done on the ODROID-X.

To do this, copy the uImage file over to the PC.

Power down the ODROID-X, insert the card in a reader on the PC, dmesg
will tell you what it's called, e.g /dev/sda2 (The FAT partition).
Check with "df" to see if it's automounted, if it's not mount it by
making a directory say, /tmp/x and mounting it there.

The uImage file that's there, rename to uImage_old and copy the new
uImage file to that directory.
Issue a couple of sync commands and umount it.

It's now ready for booting up the ODROID-X with the 3.6.6 kernel.
root@ODROID-X_G3VBV:~# uname -r
3.6.6
73 ... Sid.

On 14/11/12 15:00, MIKE DURKIN wrote:
>
> Are there drivers writen for sound yet?
>
> Mike KC7NOA
>
> ----------
> To: UHFSDR@yahoogroups.com
> From: sboyce@...
> Date: Wed, 14 Nov 2012 12:11:06 +0000

> Subject: Re: [UHFSDR] ODroidX purchase
>
> Thanks Mike,
> I had a look at the pdf and it confirms 96K capable.
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> Pascal has connected it for I-Q and he gets an error, cause yet to be
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> [2012-11-14 10:53:51] Spectrum fps set to = '15'
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> On 14/11/12 05:01, MIKE DURKIN wrote:
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>
> Max98090 is its codec ...
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> To: uhfsdr@yahoogroups.com <mailto:uhfsdr@yahoogroups.com>
> CC: uhfsdr@yahoogroups.com <mailto:uhfsdr@yahoogroups.com>
> From: mleech@... <mailto:mleech@...>
> Date: Tue, 13 Nov 2012 14:59:13 -0500
> Subject: Re: [UHFSDR] ODroidX purchase
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> On 13 Nov 2012 14:54, Sid Boyce wrote:
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> |OK,
> Pretty standard then, much what I expected.
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> The rPI can easily handle 1Msps if it's just forwarding over the
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1321. Flip Flops don't toggle reliably at 444 MHz

Yahoo group: UHFSDR
Date: 2012-11-19 23:09:41 UTC
From: rhillard@austin.rr.com
Topic: 1321 Message: 1321

I'm in the process of adding the 222 MHz band to my transceiver, and I find that the flip flops on the UHFSDR are not toggling reliably at this frequency (444MHz).

There is a 6dB difference in RF output of my Si570 at 444 MHz and at 864 MHz (the clock freq for the 432 MHz band), with 444 MHz having the lower RF level of the two. The flip flops toggle fine at 864 and 932 MHz.

I'm using a LVPECL Si570 as the clock rather than a LVDS device. It's interesting that the output response of the two chip types is quite different, with my LVPECL device sloping up as it goes from a low frequency to a high frequency, and my LVDS sloping down from low to high frequency.

As Murphy would have it, the output of my LVPECL Si570 is 6dB lower than it is at 864 and 932 MHz, and the flip flops appear to not like that.

As the chips warm up the flip flops start toggling at 444 MHz, but its not completely reliable.

Could I change the values of the the two voltage dividers (R46/R47 and R48/R49) located between the Si570 and the flip flops to give me some additional RF level at the input to the flip flops? It probably wouldn't take much additional RF to make the flip flops happier.

Bob WA6UFQ

1322. Re: [UHFSDR] Flip Flops don't toggle reliably at 444 MHz

Yahoo group: UHFSDR
Date: 2012-11-19 23:18:53 UTC
From: Dave
Topic: 1321 Message: 1322

Bob:
You could try that. Watch the DC level. I have not checked the
Si570 LVPECL levels vs freq. You do have the voltage dividor values
for the LVPECL rather than for the LVDS(they are different). I haven't
tried my at 222. But, it works fine at 2M , at HF, and on 440 MHz.

Dave - WB6DHW
<http://wb6dhw.com>

On 11/19/2012 3:09 PM, rhillard@... wrote:
>
> I'm in the process of adding the 222 MHz band to my transceiver, and I
> find that the flip flops on the UHFSDR are not toggling reliably at
> this frequency (444MHz).
>
> There is a 6dB difference in RF output of my Si570 at 444 MHz and at
> 864 MHz (the clock freq for the 432 MHz band), with 444 MHz having the
> lower RF level of the two. The flip flops toggle fine at 864 and 932 MHz.
>
> I'm using a LVPECL Si570 as the clock rather than a LVDS device. It's
> interesting that the output response of the two chip types is quite
> different, with my LVPECL device sloping up as it goes from a low
> frequency to a high frequency, and my LVDS sloping down from low to
> high frequency.
>
> As Murphy would have it, the output of my LVPECL Si570 is 6dB lower
> than it is at 864 and 932 MHz, and the flip flops appear to not like that.
>
> As the chips warm up the flip flops start toggling at 444 MHz, but its
> not completely reliable.
>
> Could I change the values of the the two voltage dividers (R46/R47 and
> R48/R49) located between the Si570 and the flip flops to give me some
> additional RF level at the input to the flip flops? It probably
> wouldn't take much additional RF to make the flip flops happier.
>
> Bob WA6UFQ
>
> _
>
>
>

1323. Re: Flip Flops don't toggle reliably at 444 MHz

Yahoo group: UHFSDR
Date: 2012-11-20 04:40:55 UTC
From: rhillard@austin.rr.com
Topic: 1321 Message: 1323

Hi Dave,

Thanks for the quick reply.

I'm currently using a LVPECL device, and the component values for the voltage dividers, as well as the rest of the setup feeding the voltage dividers are as recommended for a LVPECL Si570.

Would you recommend keeping the voltage divider's total resistance the same as for the LVPECL (82 + 130 = 212 ohms) but try different ratios such as 53 + 159 = 212 ohms, or should I keep the resistance ratio constant while increasing the total resistance of the voltage dividers, or maybe some conbination of the two approaches?

Bob WA6UFQ

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> Bob:
> You could try that. Watch the DC level. I have not checked the
> Si570 LVPECL levels vs freq. You do have the voltage dividor values
> for the LVPECL rather than for the LVDS(they are different). I haven't
> tried my at 222. But, it works fine at 2M , at HF, and on 440 MHz.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 11/19/2012 3:09 PM, rhillard@... wrote:
> >
> > I'm in the process of adding the 222 MHz band to my transceiver, and I
> > find that the flip flops on the UHFSDR are not toggling reliably at
> > this frequency (444MHz).
> >
> > There is a 6dB difference in RF output of my Si570 at 444 MHz and at
> > 864 MHz (the clock freq for the 432 MHz band), with 444 MHz having the
> > lower RF level of the two. The flip flops toggle fine at 864 and 932 MHz.
> >
> > I'm using a LVPECL Si570 as the clock rather than a LVDS device. It's
> > interesting that the output response of the two chip types is quite
> > different, with my LVPECL device sloping up as it goes from a low
> > frequency to a high frequency, and my LVDS sloping down from low to
> > high frequency.
> >
> > As Murphy would have it, the output of my LVPECL Si570 is 6dB lower
> > than it is at 864 and 932 MHz, and the flip flops appear to not like that.
> >
> > As the chips warm up the flip flops start toggling at 444 MHz, but its

> > not completely reliable.
> >
> > Could I change the values of the the two voltage dividers (R46/R47 and
> > R48/R49) located between the Si570 and the flip flops to give me some
> > additional RF level at the input to the flip flops? It probably
> > wouldn't take much additional RF to make the flip flops happier.
> >
> > Bob WA6UFQ
> >
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1324. Re: [UHFSDR] Re: Flip Flops don't toggle reliably at 444 MHz

Yahoo group: UHFSDR
Date: 2012-11-20 10:22:41 UTC
From: Dave
Topic: 1321 Message: 1324

Bob:
I would say keep the ratio the same.

Dave - WB6DHW
<http://wb6dhw.com>

On 11/19/2012 8:40 PM, rhillard@... wrote:
>
> Hi Dave,
>
> Thanks for the quick reply.
>
> I'm currently using a LVPECL device, and the component values for the
> voltage dividers, as well as the rest of the setup feeding the voltage
> dividers are as recommended for a LVPECL Si570.
>
> Would you recommend keeping the voltage divider's total resistance the
> same as for the LVPECL (82 + 130 = 212 ohms) but try different ratios
> such as 53 + 159 = 212 ohms, or should I keep the resistance ratio
> constant while increasing the total resistance of the voltage
> dividers, or maybe some conbination of the two approaches?
>
> Bob WA6UFQ
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Dave
> <dave@...> wrote:
> >
> > Bob:
> > You could try that. Watch the DC level. I have not checked the
> > Si570 LVPECL levels vs freq. You do have the voltage dividor values
> > for the LVPECL rather than for the LVDS(they are different). I haven't
> > tried my at 222. But, it works fine at 2M , at HF, and on 440 MHz.
> >
> > Dave - WB6DHW
> > <http://wb6dhw.com>
> >
> > On 11/19/2012 3:09 PM, rhillard@... wrote:
> > >
> > > I'm in the process of adding the 222 MHz band to my transceiver,
> and I
> > > find that the flip flops on the UHFSDR are not toggling reliably at
> > > this frequency (444MHz).
> > >
> > > There is a 6dB difference in RF output of my Si570 at 444 MHz and at
> > > 864 MHz (the clock freq for the 432 MHz band), with 444 MHz having

> the
> > > lower RF level of the two. The flip flops toggle fine at 864 and
> 932 MHz.
> > >
> > > I'm using a LVPECL Si570 as the clock rather than a LVDS device. It's
> > > interesting that the output response of the two chip types is quite
> > > different, with my LVPECL device sloping up as it goes from a low
> > > frequency to a high frequency, and my LVDS sloping down from low to
> > > high frequency.
> > >
> > > As Murphy would have it, the output of my LVPECL Si570 is 6dB lower
> > > than it is at 864 and 932 MHz, and the flip flops appear to not
> like that.
> > >
> > > As the chips warm up the flip flops start toggling at 444 MHz, but
> its
> > > not completely reliable.
> > >
> > > Could I change the values of the the two voltage dividers (R46/R47
> and
> > > R48/R49) located between the Si570 and the flip flops to give me some
> > > additional RF level at the input to the flip flops? It probably
> > > wouldn't take much additional RF to make the flip flops happier.
> > >
> > > Bob WA6UFQ
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1325. Re: Flip Flops don't toggle reliably at 444 MHz

Yahoo group: UHFSDR
Date: 2012-11-20 20:56:07 UTC
From: rhillard@austin.rr.com
Topic: 1321 Message: 1325

Dave,

FIXED IT!

Checking my inventory of 805 resistors, I found pairs of resistors that were approximately four times the value of the original resistors.

This combination of resistors in each voltage divider maintains the nominal 3 volts DC at the input to the flip flops while decreasing the load that the LVPECL Si570 looks into by a factor of four. The resulting increase in level to the flip flops were apparently sufficient to make The flip flops happy at this frequency.

The resistor values that I used were 348 ohms for R46 and R48, and 510 ohms for R47 and R49.

Bob WA6UFQ

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> Bob:
> I would say keep the ratio the same.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 11/19/2012 8:40 PM, rhillard@... wrote:
> >
> > Hi Dave,
> >
> > Thanks for the quick reply.
> >
> > I'm currently using a LVPECL device, and the component values for the
> > voltage dividers, as well as the rest of the setup feeding the voltage
> > dividers are as recommended for a LVPECL Si570.
> >
> > Would you recommend keeping the voltage divider's total resistance the
> > same as for the LVPECL (82 + 130 = 212 ohms) but try different ratios
> > such as 53 + 159 = 212 ohms, or should I keep the resistance ratio
> > constant while increasing the total resistance of the voltage
> > dividers, or maybe some conbination of the two approaches?
> >
> > Bob WA6UFQ
> >
> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Dave
> > <dave@> wrote:
> > >

> > > Bob:
> > > You could try that. Watch the DC level. I have not checked the
> > > Si570 LVPECL levels vs freq. You do have the voltage dividor values
> > > for the LVPECL rather than for the LVDS(they are different). I haven't
> > > tried my at 222. But, it works fine at 2M , at HF, and on 440 MHz.
> > >
> > > Dave - WB6DHW
> > > <http://wb6dhw.com>
> > >
> > > On 11/19/2012 3:09 PM, rhillard@ wrote:
> > > >
> > > > I'm in the process of adding the 222 MHz band to my transceiver,
> > and I
> > > > find that the flip flops on the UHFSDR are not toggling reliably at
> > > > this frequency (444MHz).
> > > >
> > > > There is a 6dB difference in RF output of my Si570 at 444 MHz and at
> > > > 864 MHz (the clock freq for the 432 MHz band), with 444 MHz having
> > the
> > > > lower RF level of the two. The flip flops toggle fine at 864 and
> > 932 MHz.
> > > >
> > > > I'm using a LVPECL Si570 as the clock rather than a LVDS device. It's
> > > > interesting that the output response of the two chip types is quite
> > > > different, with my LVPECL device sloping up as it goes from a low
> > > > frequency to a high frequency, and my LVDS sloping down from low to
> > > > high frequency.
> > > >
> > > > As Murphy would have it, the output of my LVPECL Si570 is 6dB lower
> > > > than it is at 864 and 932 MHz, and the flip flops appear to not
> > like that.
> > > >
> > > > As the chips warm up the flip flops start toggling at 444 MHz, but
> > its
> > > > not completely reliable.
> > > >
> > > > Could I change the values of the the two voltage dividers (R46/R47
> > and
> > > > R48/R49) located between the Si570 and the flip flops to give me some
> > > > additional RF level at the input to the flip flops? It probably
> > > > wouldn't take much additional RF to make the flip flops happier.
> > > >
> > > > Bob WA6UFQ
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1326. UHFSDR information and drivers

Yahoo group: UHFSDR
Date: 2012-11-21 21:56:58 UTC
From: RW3ACQ
Topic: 1326 Message: 1326

Hi dear all!
I'm new to the group, so excuse me for my questions.
A friend of mine has lost his CD with the software attached to the project, so I wonder where I can find one or wich drivers and programs I need to run & and control the UHFSDR?
Thanks in advance,
Serge, RW3ACQ

1327. RE: [UHFSDR] UHFSDR information and drivers

Yahoo group: UHFSDR
Date: 2012-11-21 22:13:49 UTC
From: MIKE DURKIN
Topic: 1326 Message: 1327

Depends on what controller you chose and what operating system you have ...

Need a little more information

To: UHFSDR@yahoogroups.com
From: rw3acq@yahoo.com
Date: Wed, 21 Nov 2012 21:56:58 +0000
Subject: [UHFSDR] UHFSDR information and drivers

Hi dear all!

I'm new to the group, so excuse me for my questions.

A friend of mine has lost his CD with the software attached to the project, so I wonder where I can find one or wich drivers and programs I need to run & and control the UHFSDR?

Thanks in advance,

Serge, RW3ACQ

1328. Re: UHFSDR information and drivers

Yahoo group: UHFSDR
Date: 2012-11-22 17:10:00 UTC
From: RW3ACQ
Topic: 1326 Message: 1328

Ok, Mike, thank you! I'll try to contact my fellow UHFSDR user to clear this up.
Kind regards es 73!

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
> Depends on what controller you chose and what operating system you have ...
>
> Need a little more information
>
> To: UHFSDR@yahoogroups.com
> From: rw3acq@...
> Date: Wed, 21 Nov 2012 21:56:58 +0000
> Subject: [UHFSDR] UHFSDR information and drivers
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> Hi dear all!
>
> I'm new to the group, so excuse me for my questions.
>
> A friend of mine has lost his CD with the software attached to the project, so I wonder where I can find one or wich drivers and programs I need to run & and control the UHFSDR?

>
> Thanks in advance,
>
> Serge, RW3ACQ
>

1329. RE: [UHFSDR] Re: UHFSDR information and drivers

Yahoo group: UHFSDR
Date: 2012-11-22 17:26:10 UTC
From: MIKE DURKIN
Topic: 1326 Message: 1329

Ok ... good luck.

The UHFSDR has no controller on board ... there are a few options to chose from with a wide range of options - depending on how much money you want to spend ...

KC7NOA

To: UHFSDR@yahoogroups.com
From: rw3acq@...
Date: Thu, 22 Nov 2012 17:10:00 +0000
Subject: [UHFSDR] Re: UHFSDR information and drivers

Ok, Mike, thank you! I'll try to contact my fellow UHFSDR user to clear this up.

Kind regards es 73!

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:

>

> Depends on what controller you chose and what operating system you have ...

>

> Need a little more information

>

> To: UHFSDR@yahoogroups.com

> From: rw3acq@...

> Date: Wed, 21 Nov 2012 21:56:58 +0000

> Subject: [UHFSDR] UHFSDR information and drivers

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> Hi dear all!

>

> I'm new to the group, so excuse me for my questions.

>

> A friend of mine has lost his CD with the software attached to the project, so I wonder where I can find one or wich drivers and programs I need to run & and control the UHFSDR?

>

> Thanks in advance,

>

> Serge, RW3ACQ

>

1330. Re: UHFSDR information and drivers

Yahoo group: UHFSDR
Date: 2012-11-24 12:08:47 UTC
From: RW3ACQ
Topic: 1326 Message: 1330

Hello, dear Mike!
After exchanging a couple of e-mails with the UHFSDR owner who actually needs these drivers, I've got the following: Windows XP, Control via USB. Could it be enough to find the appropriate software?
He's sure that something went wrong with the "drivers".
Thank you!
Serge, RW3ACQ

1331. RE: [UHFSDR] Re: UHFSDR information and drivers

Yahoo group: UHFSDR
Date: 2012-11-24 18:18:58 UTC
From: MIKE DURKIN
Topic: 1326 Message: 1331

This is a good starting point .... it will lead to all other answers for possible questions if read and read of other links for software and other type of sdr setups...

http://pe0fko.nl/SR-V9-Si570/

Drivers for XP are twards the bottom ...

KC7NOA

To: UHFSDR@yahoogroups.com
From: rw3acq@yahoo.com
Date: Sat, 24 Nov 2012 12:08:47 +0000
Subject: [UHFSDR] Re: UHFSDR information and drivers

Hello, dear Mike!

After exchanging a couple of e-mails with the UHFSDR owner who actually needs these drivers, I've got the following: Windows XP, Control via USB. Could it be enough to find the appropriate software?

He's sure that something went wrong with the "drivers".

Thank you!

Serge, RW3ACQ

1332. Re: UHFSDR information and drivers

Yahoo group: UHFSDR
Date: 2012-11-24 20:30:08 UTC
From: RW3ACQ
Topic: 1326 Message: 1332

Dear Mike, thanks for answering!
"http://pe0fko.nl/SR-V9-Si570/" sounds familiar to me, beacuse I'm a SR 9.0 X-tall owner.
Great, hope this helps and we'll start from this point.
Kind regards es 73!
Serge, RW3ACQ

1333. RE: [UHFSDR] Re: UHFSDR information and drivers

Yahoo group: UHFSDR
Date: 2012-11-25 16:24:11 UTC
From: MIKE DURKIN
Topic: 1326 Message: 1333

https://sites.google.com/site/g4zfqradio/attiny_usb

Also might be of help ...

To: UHFSDR@yahoogroups.com
From: rw3acq@...
Date: Sat, 24 Nov 2012 20:30:08 +0000
Subject: [UHFSDR] Re: UHFSDR information and drivers

Dear Mike, thanks for answering!

"http://pe0fko.nl/SR-V9-Si570/" sounds familiar to me, beacuse I'm a SR 9.0 X-tall owner. Great, hope this helps and we'll start from this point.

Kind regards es 73!

Serge, RW3ACQ

1334. FW: UHFSDR kit

Yahoo group: UHFSDR
Date: 2012-11-25 19:24:06 UTC
From: The Silver Fox
Topic: 1334 Message: 1334

Help needed.

From: Thomas Nuetzel [mailto:thomas.nuetzel@...]
Sent: Sunday, November 25, 2012 9:20 AM
To: Alan Hill
Subject: Re: UHFSDR kit

Hi Alan,

my UHFSDR was working fine till today, but I might need your support now.

Unfortunately today I connected the wrong cable to the UHFSDR Ant input. I
was transmitting with my other TRX with 5 watts (on 20 m) connected to
UHFSDR input during rx and now there are about 20 dB sensitivity missing.

Which components might be "burned" and have to be replaced?

vy 73,

Thomas

Am 20.03.2012 um 22:44 schrieb Thomas Nützel <thomas.nuetzel@...>:

Hi Alan,

can you pse give me an update when the kit can be expected?

vy 73,

Thomas

Am 26.02.2012 um 17:21 schrieb Alan Hill:

THANK YOU FOR ORDER. THERE IS A TWO WEEK DELAY BEFORE SHIPMENT.

73'S

ALAN - W6ARH

On Sun, Feb 26, 2012 at 8:06 AM, Thomas Nuetzel <thomas.nuetzel@...>
wrote:

Alan,

I have transfered $194 via PayPal.

Thanks for your support to offer the kit.
Looking forward for the UHFSDR to build.

vy 73,
Thomas

Am 24.02.2012 um 18:17 schrieb The Silver Fox:

> Thomas,
> Yes. The price quoted includes shipment. Also, there are very good
> reports with the USBSDR interface although it is somewhat expensive in
> comparison to other options. There are also several options for outboard
> filters. I sell a kit called the Mobo which has the filters and other
> features. Check it out on mobokits.stormwarning.com
<http://mobokits.stormwarning.com/> . The creator of the
> USFSHDR is also finalizing a filter kit but that is all it will be.
> You should check on the UFHSDR group forums for other advice. I do not
have
> a Mac but I believe others have done it. My impression is that there are
> many hurtles to getting it running under Mac Osx.
> 73's
> Alan - W6ARH
>
> -----Original Message-----
> From: Thomas Nuetzel [mailto:thomas.nuetzel@...]
> Sent: Friday, February 24, 2012 8:54 AM
> To: The Silver Fox
> Subject: Re: UHFSDR kit
>
> Alan,
>
> thanks for the quick response.
>
> I will take one UHFSDR kit.
>
> The price of $194, does it include shipping to Germany?
>
> I'm planning to use the USB2SDR interface. Can you recommend it?
> Any experience with the SDR running Mac Osx? (my FUNcube works at least
fine
> with my Mac).
> For lower frequencies, and recommendation for bandpass filter board?
>
> My address:
>
> Thomas Nuetzel
> Friedrichshafener Str. 28 a
> 88090 Immenstaad
> Germany
>
> Rgds,
> Thomas
>
> Am 24.02.2012 um 17:33 schrieb The Silver Fox:
>

>> The kit contains everything needed to hook the board up to an LPT port
>> on a computer. You can find other interface kits on the web to
substitute
> other
>> types of computer interfaces to the board. The price is $194 USD paypal
> to
>> my email address. The only other issue to consider is that I am
>> experiencing vendor backlogs in my inventory replenishment. That
>> translates to a four to six week delay from now before I can fill orders.
>> 73's
>> Alan - W6ARH
>>
>> -----Original Message-----
>> From: Thomas Nuetzel [mailto:thomas.nuetzel@...]
>> Sent: Friday, February 24, 2012 7:41 AM
>> To: alan.r.hill@...
>> Subject: UHFSDR kit
>>
>> Dear Alan,
>>
>> I'm looking for a UHFSDR kit, including all parts and pcb. Pse let me
>> know the price and availability.
>> Is there anything else I need to build up the UHFSDR?
>>
>> vy 73,
>>
>> Thomas
>> DG7NT=
>>
>

1335. Re: [UHFSDR] FW: UHFSDR kit

Yahoo group: UHFSDR
Date: 2012-11-25 20:04:20 UTC
From: Sid Boyce
Topic: 1334 Message: 1335

After a quick look,
If TX power is the same .. suspect U4 (BGA612).
If TX power is down U2, U7 or both.
73 ... Sid.

On 25/11/12 19:24, The Silver Fox wrote:
>
> Help needed.
>
> *From:*Thomas Nuetzel [mailto:thomas.nuetzel@...]
> *Sent:* Sunday, November 25, 2012 9:20 AM
> *To:* Alan Hill
> *Subject:* Re: UHFSDR kit
>
> Hi Alan,
>
> my UHFSDR was working fine till today, but I might need your support now.
>
> Unfortunately today I connected the wrong cable to the UHFSDR Ant
> input. I was transmitting with my other TRX with 5 watts (on 20 m)
> connected to UHFSDR input during rx and now there are about 20 dB
> sensitivity missing.
>
> Which components might be "burned" and have to be replaced?
>
> vy 73,
>
> Thomas
>
> Am 20.03.2012 um 22:44 schrieb Thomas N?tzel
> <thomas.nuetzel@... <mailto:thomas.nuetzel@...>>:
>
>
>
> Hi Alan,
>
> can you pse give me an update when the kit can be expected?
>
> vy 73,
>
> Thomas
>
> Am 26.02.2012 um 17:21 schrieb Alan Hill:
>
>

>
> THANK YOU FOR ORDER. THERE IS A TWO WEEK DELAY BEFORE SHIPMENT.
>
> 73'S
>
> ALAN - W6ARH
>
> On Sun, Feb 26, 2012 at 8:06 AM, Thomas Nuetzel
> <thomas.nuetzel@... <mailto:thomas.nuetzel@...>> wrote:
>
> Alan,
>
> I have transfered $194 via PayPal.
>
> Thanks for your support to offer the kit.
> Looking forward for the UHFSDR to build.
>
> vy 73,
> Thomas
>
>
> Am 24.02.2012 um 18:17 schrieb The Silver Fox:
>
> > Thomas,
> > Yes. The price quoted includes shipment. Also, there are very good
> > reports with the USBSDR interface although it is somewhat expensive in
> > comparison to other options. There are also several options for
> outboard
> > filters. I sell a kit called the Mobo which has the filters and other
> > features. Check it out on mobokits.stormwarning.com
> <http://mobokits.stormwarning.com/>. The creator of the
> > USFSHDR is also finalizing a filter kit but that is all it will be.
> > You should check on the UFHSDR group forums for other advice. I do
> not have
> > a Mac but I believe others have done it. My impression is that
> there are
> > many hurtles to getting it running under Mac Osx.
> > 73's
> > Alan - W6ARH
> >
> > -----Original Message-----
> > From: Thomas Nuetzel [mailto:thomas.nuetzel@...
> <mailto:thomas.nuetzel@...>]
> > Sent: Friday, February 24, 2012 8:54 AM
> > To: The Silver Fox
> > Subject: Re: UHFSDR kit
> >
> > Alan,
> >
> > thanks for the quick response.

> >
> > I will take one UHFSDR kit.
> >
> > The price of $194, does it include shipping to Germany?
> >
> > I'm planning to use the USB2SDR interface. Can you recommend it?
> > Any experience with the SDR running Mac Osx? (my FUNcube works at
> least fine
> > with my Mac).
> > For lower frequencies, and recommendation for bandpass filter board?
> >
> > My address:
> >
> > Thomas Nuetzel
> > Friedrichshafener Str. 28 a
> > 88090 Immenstaad
> > Germany
> >
> > Rgds,
> > Thomas
> >
> > Am 24.02.2012 um 17:33 schrieb The Silver Fox:
> >
> >> The kit contains everything needed to hook the board up to an LPT port
> >> on a computer. You can find other interface kits on the web to
> substitute
> > other
> >> types of computer interfaces to the board. The price is $194 USD
> paypal
> > to
> >> my email address. The only other issue to consider is that I am
> >> experiencing vendor backlogs in my inventory replenishment. That
> >> translates to a four to six week delay from now before I can fill
> orders.
> >> 73's
> >> Alan - W6ARH
> >>
> >> -----Original Message-----
> >> From: Thomas Nuetzel [mailto:thomas.nuetzel@...
> <mailto:thomas.nuetzel@...>]
> >> Sent: Friday, February 24, 2012 7:41 AM
> >> To: alan.r.hill@... <mailto:alan.r.hill@...>
> >> Subject: UHFSDR kit
> >>
> >> Dear Alan,
> >>
> >> I'm looking for a UHFSDR kit, including all parts and pcb. Pse let me
> >> know the price and availability.
> >> Is there anything else I need to build up the UHFSDR?
> >>

> >> vy 73,
> >>
> >> Thomas
> >> DG7NT=
> >>
> >
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1336. Re: [UHFSDR] FW: UHFSDR kit

Yahoo group: UHFSDR
Date: 2012-11-25 21:05:13 UTC
From: Dave
Topic: 1334 Message: 1336

Check U4(the BGA612) and possibly U2 and U7(the AS169 switches).

Dave - WB6DHW
<http://wb6dhw.com>

On 11/25/2012 11:24 AM, The Silver Fox wrote:
>
> Help needed.
>
> *From:*Thomas Nuetzel [mailto:thomas.nuetzel@...]
> *Sent:* Sunday, November 25, 2012 9:20 AM
> *To:* Alan Hill
> *Subject:* Re: UHFSDR kit
>
> Hi Alan,
>
> my UHFSDR was working fine till today, but I might need your support now.
>
> Unfortunately today I connected the wrong cable to the UHFSDR Ant
> input. I was transmitting with my other TRX with 5 watts (on 20 m)
> connected to UHFSDR input during rx and now there are about 20 dB
> sensitivity missing.
>
> Which components might be "burned" and have to be replaced?
>
> vy 73,
>
> Thomas
>
>
>
>
>

1337. New file uploaded to UHFSDR

Yahoo group: UHFSDR
Date: 2012-12-01 05:46:27 UTC
From: UHFSDR@yahoogroups.com
Topic: 2 Message: 1337

```
Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the UHFSDR
group.

File : /SV1IXP/2m module.rar
Uploaded by : sw1ixp <kostas.ioannidis@...>
Description : 2m module files

You can access this file at the URL:
http://groups.yahoo.com/group/UHFSDR/files/SV1IXP/2m%20module.rar

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

sw1ixp <kostas.ioannidis@...>
```

1338. RE: [softrock40] Raspberry Pi

Yahoo group: UHFSDR
Date: 2012-12-01 22:16:55 UTC
From: MIKE DURKIN
Topic: 1338 Message: 1338

Speaking of which ... im interested in selling mine ....

Never powered up ... still need microHDMI and gona keep the 16G SDcard ....

Any one interested?

Mike KC7NOA

To: softrock40@yahoogroups.com
From: goatguy101@gmail.com
Date: Sat, 1 Dec 2012 17:04:23 -0500
Subject: [softrock40] Raspberry Pi

I just got a Pi and set it up. Haven't used Linux
in 20 years but the price/performance ratio was too good to pass up. Is anyone
creating ham radio apps for the Pi? Could you attach a sound card dongle and run
SDR software?

Rick
K3IND

1339. Re: UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2012-12-07 15:29:04 UTC
From: g.suggate
Topic: 714 Message: 1339

Hello All,

I have recently returned to work on my UHFSDR, and in a bid to improve sensitivity fitted the SPF5043 MMIC chip to replace the BGA212. The 120 ohm resistor was relaced by a 150nH inductor. Whilst it does work the circuit is now intermittently unstable. Sounds almost like the "microphony" of times past.
Has anybody else experienced this and devised a fix ??

I would go back to the BGA212 but it disappeared !

Seasons Greetings

Geoff G3NPI Buckingham UK

--- In UHFSDR@yahoogroups.com, "The Silver Fox" <alan.r.hill@...> wrote:
>
> The SPF5043 MMIC chips have arrived. Tomorrow, I will mail them to all who
> have pre-paid.
>
> 73,
>
> Alan - W6ARH
>

1340. Noise Spikes

Yahoo group: UHFSDR
Date: 2012-12-10 17:17:29 UTC
From: tony_g3ovh
Topic: 1340 Message: 1340

This message started off as a request for help, but at the end I found the solution, so I am still sending it in case others have similar problems:

I am using a UHFSDR with the audio to a SoundBlaster Live 16bit USB, and a QRP2000 USB controller for the Si570. It's all controlled with PowerSDR-IQ running on an old PC - a Medion Pentium 4 2.6GHz running windows XP. The QRP2000 is in the same diecast box as the UHFSDR, but fairly well removed from the audio amps and RF input. My problem was that around the centre spike of the spectrum I get spikes at exactly 1kHz intervals, out to a distance of +/- 10 kHz. The two nearest the centreline are -110dB and they tail away to the noise floor at -140dB. If I disconnect the USB cable feeding the QRP2000 the spikes are still present but 10dB lower. Disconnecting the QRP2000 from the UHFSDR ADUM1251 makes no difference. I can sometimes see them by touching the audio input to the Soundblaster card, and turning off the UHFSDR 12V supply makes little difference.

Solution - found that disconnecting the line input to the SoundBlaster card from the UHFSDR and connecting to any ground forming a ground loop picked up the spikes worse, so they weren't coming from the UHFSDR.
Eventually, found that putting 6 turns of the USB lead feeding the Soundblaster Live unit through a toroidal core cured most of the problem. Small cores threaded on the lead did nothing, but the core of a toroidal mains transformer worked well. In the end I used the ferrite core of an old line output transformer. The interference was reduced to just two spikes at 1kHz from the centre line at -120dB. I presume that the switched mode PSU in the PC was the culprit.

Tony G3OVH

1341. RE: [UHFSDR] Noise Spikes

Yahoo group: UHFSDR
Date: 2012-12-10 17:27:51 UTC
From: MIKE DURKIN
Topic: 1340 Message: 1341

If you were feeling courageous ... add filter caps to the sound card board at the power input and 0.1uf after any regulator to ....

To: UHFSDR@yahoogroups.com
From: tabbey01@...
Date: Mon, 10 Dec 2012 17:17:29 +0000
Subject: [UHFSDR] Noise Spikes

This message started off as a request for help, but at the end I found the solution, so I am still sending it in case others have similar problems:

I am using a UHFSDR with the audio to a SoundBlaster Live 16bit USB, and a QRP2000 USB controller for the Si570. It's all controlled with PowerSDR-IQ running on an old PC - a Medion Pentium 4 2.6GHz running windows XP. The QRP2000 is in the same diecast box as the UHFSDR, but fairly well removed from the audio amps and RF input. My problem was that around the centre spike of the spectrum I get spikes at exactly 1kHz intervals, out to a distance of +/- 10 kHz. The two nearest the centreline are -110dB and they tail away to the noise floor at -140dB. If I disconnect the USB cable feeding the QRP2000 the spikes are still present but 10dB lower. Disconnecting the QRP2000 from the UHFSDR ADUM1251 makes no difference. I can sometimes see them by touching the audio input to the Soundblaster card, and turning off the UHFSDR 12V supply makes little difference.

Solution - found that disconnecting the line input to the SoundBlaster card from the UHFSDR and connecting to any ground forming a ground loop picked up the spikes worse, so they weren't coming from the UHFSDR.

Eventually, found that putting 6 turns of the USB lead feeding the Soundblaster Live unit through a toroidal core cured most of the problem. Small cores threaded on the lead did nothing, but the core of a toroidal mains transformer worked well. In the end I used the ferrite core of an old line output transformer. The interference was reduced to just two spikes at 1kHz from the centre line at -120dB. I presume that the switched mode PSU in the PC was the culprit.

Tony G3OVH

1342. New super UHFSDR

Yahoo group: UHFSDR
Date: 2012-12-17 06:01:21 UTC
From: brainerdd
Topic: 1342 Message: 1342

I am looking at developing a new transceiver based on the UHFSDR. I envision 2 receiver strips and one transmitter strip. That would allow cross-banding as in the FT-8800(with VHF or UHF to HF also). Separate strips would cut out some of the transmit/receive switching and could allow duplex operation(with sufficient freq. separation and filtering).
I have been looking at controller chips. The ATMEL ATSAM3UXX looks really good and is cheap(well under $10 qty 1 and under 5 at qty 25) from Mouser and Digikey. They are based on the ARM M3 and have 64K, 128K, or 256K Bytes of Flash program memory, 20K to 52K Bytes of RAM, a High Speed USB interface, I2C, I2S, timers, etc, plus a bootloader in ROM. Some DSP instructions are included as well. Only bad is only in 100 or 144 pin TQFP or TQBGA packages. The TQFP's are doable by hand(.5mm pin spacing).
Does anyone have any experience with them. Would it be possible to hang one or 2 stereo A/D's onto the I2S bus and decode SSB, CW, and NFM plus data modes? I think it should have enough horsepower to do that over a narrow band without the waterfall.
The receiver strips would include a set of selectable BPF's(similar to my small BPF board). The transmit strip would have enough output to drive a 100W amp. My MPLPF board would be used for the transmit LPF.
I also found 2.6" and 3.5" touch screen TFT LCD displays (240 X 320) for $8 and $15!

Dave - WB6DHW
<http://wb6dhw.com>

1343. Re: [UHFSDR] New super UHFSDR

Yahoo group: UHFSDR
Date: 2012-12-17 06:16:54 UTC
From: Alan Hill
Topic: 1342 Message: 1343

Nice to hear that someone is improving the product. There are several development boards out there that have samples of A/D chips on them although I haven't seen one with enough bitwidth to be useful. Good luck on the effort.
73,
Alan - W6ARH

On Sun, Dec 16, 2012 at 10:01 PM, brainerdd <dave@wb6dhw.com> wrote:

> **
>
>
> I am looking at developing a new transceiver based on the UHFSDR. I
> envision 2 receiver strips and one transmitter strip. That would allow
> cross-banding as in the FT-8800(with VHF or UHF to HF also). Separate
> strips would cut out some of the transmit/receive switching and could allow
> duplex operation(with sufficient freq. separation and filtering).
> I have been looking at controller chips. The ATMEL ATSAM3UXX looks really
> good and is cheap(well under $10 qty 1 and under 5 at qty 25) from Mouser
> and Digikey. They are based on the ARM M3 and have 64K, 128K, or 256K Bytes
> of Flash program memory, 20K to 52K Bytes of RAM, a High Speed USB
> interface, I2C, I2S, timers, etc, plus a bootloader in ROM. Some DSP
> instructions are included as well. Only bad is only in 100 or 144 pin TQFP
> or TQBGA packages. The TQFP's are doable by hand(.5mm pin spacing).
> Does anyone have any experience with them. Would it be possible to hang
> one or 2 stereo A/D's onto the I2S bus and decode SSB, CW, and NFM plus
> data modes? I think it should have enough horsepower to do that over a
> narrow band without the waterfall.
> The receiver strips would include a set of selectable BPF's(similar to my
> small BPF board). The transmit strip would have enough output to drive a
> 100W amp. My MPLPF board would be used for the transmit LPF.
> I also found 2.6" and 3.5" touch screen TFT LCD displays (240 X 320) for
> $8 and $15!
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
>
>

1344. Re: [UHFSDR] New super UHFSDR

Yahoo group: UHFSDR
Date: 2012-12-17 07:14:37 UTC
From: Dave
Topic: 1342 Message: 1344

Alan:
I have been thinking on this for quite a while. The goal is a complete self-contained(with provision to connector to PC and use SDR programs) 100W transceiver covering 160 meters to 70 cm and possibly 1296 MHz. I would like to have things going in time to have a booth at Dayton in 2014.

Dave - WB6DHW
<http://wb6dhw.com>

On 12/16/2012 10:16 PM, Alan Hill wrote:
>
> Nice to hear that someone is improving the product. There are several
> development boards out there that have samples of A/D chips on them
> although I haven't seen one with enough bitwidth to be useful. Good
> luck on the effort.
>
> 73,
> Alan - W6ARH
>
>
>
>
> On Sun, Dec 16, 2012 at 10:01 PM, brainerdd <dave@...
> <mailto:dave@...>> wrote:
>
> I am looking at developing a new transceiver based on the UHFSDR.
> I envision 2 receiver strips and one transmitter strip. That would
> allow cross-banding as in the FT-8800(with VHF or UHF to HF also).
> Separate strips would cut out some of the transmit/receive
> switching and could allow duplex operation(with sufficient freq.
> separation and filtering).
> I have been looking at controller chips. The ATMEL ATSAM3UXX looks
> really good and is cheap(well under $10 qty 1 and under 5 at qty
> 25) from Mouser and Digikey. They are based on the ARM M3 and have
> 64K, 128K, or 256K Bytes of Flash program memory, 20K to 52K Bytes
> of RAM, a High Speed USB interface, I2C, I2S, timers, etc, plus a
> bootloader in ROM. Some DSP instructions are included as well.
> Only bad is only in 100 or 144 pin TQFP or TQBGA packages. The
> TQFP's are doable by hand(.5mm pin spacing).
> Does anyone have any experience with them. Would it be possible to
> hang one or 2 stereo A/D's onto the I2S bus and decode SSB, CW,
> and NFM plus data modes? I think it should have enough horsepower
> to do that over a narrow band without the waterfall.
> The receiver strips would include a set of selectable

> BPF's(similar to my small BPF board). The transmit strip would
> have enough output to drive a 100W amp. My MPLPF board would be
> used for the transmit LPF.
> I also found 2.6" and 3.5" touch screen TFT LCD displays (240 X
> 320) for $8 and $15!
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
>
>

1345. RE: [UHFSDR] New super UHFSDR

Yahoo group: UHFSDR
Date: 2012-12-17 07:55:52 UTC
From: marc olanié
Topic: 1342 Message: 1345

I know what my future rig will be :-))

Il already have two UHFSDR running with George's SDR Widget, and was considering mixing the two SDR to add duplex and crossband capabilities, with a devilish bunch or relays, switches and wiring :-(Glad to hear that you will realize my dream. I won't have to fight with such a messy wiring

The SDR Widget also has a 144 TQFP. Soldering it is definitely not an issue, even for a non-technical-low-level ham like me. And I'm pretty sure that OM's of goodwill will help those who are not confident in their soldering skill. This should not be an obstacle in your engineering work.

I long for the next Dayton :-)

Marc f6itu

PS : Adding the 23 cm band is definitely a "must have". I've tried to add an old KK7B "no tune transverter" behind the UHFSDR, but the results have been mixed, almost disappointing

-----Message d'origine-----
De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] De la part de brainerdd
Envoyé : lundi 17 décembre 2012 07:01
À : UHFSDR@yahoogroups.com
Objet : [UHFSDR] New super UHFSDR

I am looking at developing a new transceiver based on the UHFSDR. I envision 2 receiver strips and one transmitter strip. That would allow cross-banding as in the FT-8800(with VHF or UHF to HF also). Separate strips would cut out some of the transmit/receive switching and could allow duplex operation(with sufficient freq. separation and filtering).
I have been looking at controller chips. The ATMEL ATSAM3UXX looks really good and is cheap(well under $10 qty 1 and under 5 at qty 25) from Mouser and Digikey. They are based on the ARM M3 and have 64K, 128K, or 256K Bytes of Flash program memory, 20K to 52K Bytes of RAM, a High Speed USB interface, I2C, I2S, timers, etc, plus a bootloader in ROM. Some DSP instructions are included as well. Only bad is only in 100 or 144 pin TQFP or TQBGA packages. The TQFP's are doable by hand(.5mm pin spacing).
Does anyone have any experience with them. Would it be possible to hang one or 2 stereo A/D's onto the I2S bus and decode SSB, CW, and NFM plus data modes? I think it should have enough horsepower to do that over a narrow band without the waterfall.
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I also found 2.6" and 3.5" touch screen TFT LCD displays (240 X 320) for

$8 and $15!

Dave - WB6DHW
<http://wb6dhw.com>

Yahoo! Groups Links

1346. Re: New super UHFSDR

Yahoo group: UHFSDR
Date: 2012-12-17 08:35:04 UTC
From: Stephen Farthing
Topic: 1342 Message: 1346

Dave,

You could look at the Ti Stellaris Launchpad development board. They are $12.99 delivered and have an ARM Cortex M4F core. Full details are here :-

http://www.ti.com/tool/ek-lm4f120xl?DCMP=D_MCU_Stellaris_Stellaris&CMP=KNC-GoogleTI&247SEM

One thing about them that is not widely known is that you can program these with an Arduino "Fork" called Energia. Details here :-

https://github.com/energia/Energia/wiki/Getting-Started

So a lot of Arduino code and libraries will work without modification apart from changing I/O pins. The other advantage is it's not difficult to use and is free.

For those of you wanting something simpler, and cheaper, they do a Launchpad board for the 16 bit MSP430 range complete with a spare processor, a USB cable and a clock crystal for under $5 delivered.

At the moment I am playing with the MSP430 to control an El-Cheapo EBay AD9850 DDS for QRSS use along with my good friend Guido PE1NZZ.

73s from England,

Steve G0XAR

1347. RE: [UHFSDR] New super UHFSDR

Yahoo group: UHFSDR
Date: 2012-12-17 08:58:53 UTC
From: MIKE DURKIN
Topic: 1342 Message: 1347

3.5" touch TFT ... 15? Cool ...
Where?

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Mon, 17 Dec 2012 06:01:21 +0000
Subject: [UHFSDR] New super UHFSDR

I am looking at developing a new transceiver based on the UHFSDR. I envision 2 receiver strips and one transmitter strip. That would allow cross-banding as in the FT-8800(with VHF or UHF to HF also). Separate strips would cut out some of the transmit/receive switching and could allow duplex operation(with sufficient freq. separation and filtering).

I have been looking at controller chips. The ATMEL ATSAM3UXX looks really good and is cheap(well under $10 qty 1 and under 5 at qty 25) from Mouser and Digikey. They are based on the ARM M3 and have 64K, 128K, or 256K Bytes of Flash program memory, 20K to 52K Bytes of RAM, a High Speed USB interface, I2C, I2S, timers, etc, plus a bootloader in ROM. Some DSP instructions are included as well. Only bad is only in 100 or 144 pin TQFP or TQBGA packages. The TQFP's are doable by hand(.5mm pin spacing).

Does anyone have any experience with them. Would it be possible to hang one or 2 stereo A/D's onto the I2S bus and decode SSB, CW, and NFM plus data modes? I think it should have enough horsepower to do that over a narrow band without the waterfall.

The receiver strips would include a set of selectable BPF's(similar to my small BPF board). The transmit strip would have enough output to drive a 100W amp. My MPLPF board would be used for the transmit LPF.

I also found 2.6" and 3.5" touch screen TFT LCD displays (240 X 320) for $8 and $15!

Dave - WB6DHW

<http://wb6dhw.com>

1348. Re: [UHFSDR] New super UHFSDR

Yahoo group: UHFSDR
Date: 2012-12-17 10:09:42 UTC
From: Dave
Topic: 1342 Message: 1348

Mike:
I mispoke. It is a 3.2" and is at
<http://www.aliexpress.com/store/product/3-2-TFT-LCD-Module-Touch-Screen-Panel-240-x-320-Pixels-SSD1289Z/612402_599840460.html>
Here is a 3.5" delivered for $11.52. But, I don't know what the
controller chip is. I just sent a message to the company sellling them.
<http://www.aliexpress.com/store/product/100-original-TFT-2-6-inch-LCD-whith-touch-high-definition/215014_657129192.html>
Dave - WB6DHW
<http://wb6dhw.com>

On 12/17/2012 12:58 AM, MIKE DURKIN wrote:
>
> 3.5" touch TFT ... 15? Cool ...
> Where?
>
> ---
> To: UHFSDR@yahoogroups.com
> From: dave@...
> Date: Mon, 17 Dec 2012 06:01:21 +0000
> Subject: [UHFSDR] New super UHFSDR
>
> I am looking at developing a new transceiver based on the UHFSDR. I
> envision 2 receiver strips and one transmitter strip. That would allow
> cross-banding as in the FT-8800(with VHF or UHF to HF also). Separate
> strips would cut out some of the transmit/receive switching and could
> allow duplex operation(with sufficient freq. separation and filtering).
> I have been looking at controller chips. The ATMEL ATSAM3UXX looks
> really good and is cheap(well under $10 qty 1 and under 5 at qty 25)
> from Mouser and Digikey. They are based on the ARM M3 and have 64K,
> 128K, or 256K Bytes of Flash program memory, 20K to 52K Bytes of RAM,
> a High Speed USB interface, I2C, I2S, timers, etc, plus a bootloader
> in ROM. Some DSP instructions are included as well. Only bad is only
> in 100 or 144 pin TQFP or TQBGA packages. The TQFP's are doable by
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> Does anyone have any experience with them. Would it be possible to
> hang one or 2 stereo A/D's onto the I2S bus and decode SSB, CW, and
> NFM plus data modes? I think it should have enough horsepower to do
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> drive a 100W amp. My MPLPF board would be used for the transmit LPF.
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> for $8 and $15!
>

> Dave - WB6DHW
> <http://wb6dhw.com>
>
>
>

1349. Re: [UHFSDR] New super UHFSDR

Yahoo group: UHFSDR
Date: 2012-12-17 20:07:30 UTC
From: Dave
Topic: 1342 Message: 1349

Marc:
My XYL(KF7LGL) and I went to Dayton for the first time this year(I
have been a ham since 1963). We will skip next year and go in 2014.

Dave - WB6DHW
<http://wb6dhw.com>

On 12/16/2012 11:55 PM, marc olani? wrote:
>
> I know what my future rig will be :-))
>
> Il already have two UHFSDR running with George's SDR Widget, and was
> considering mixing the two SDR to add duplex and crossband capabilities,
> with a devilish bunch or relays, switches and wiring :-(Glad to hear that
> you will realize my dream. I won't have to fight with such a messy wiring
>
> The SDR Widget also has a 144 TQFP. Soldering it is definitely not an
> issue,
> even for a non-technical-low-level ham like me. And I'm pretty sure that
> OM's of goodwill will help those who are not confident in their soldering
> skill. This should not be an obstacle in your engineering work.
>
> I long for the next Dayton :-)
>
> Marc f6itu
>
> PS : Adding the 23 cm band is definitely a "must have". I've tried to
> add an
> old KK7B "no tune transverter" behind the UHFSDR, but the results have
> been
> mixed, almost disappointing
>
> -----Message d'origine-----
> De : UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> [mailto:UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>] De
> la part de
> brainerdd
> Envoy? : lundi 17 d?cembre 2012 07:01
> ? : UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> Objet : [UHFSDR] New super UHFSDR
>
> I am looking at developing a new transceiver based on the UHFSDR. I
> envision 2 receiver strips and one transmitter strip. That would allow
> cross-banding as in the FT-8800(with VHF or UHF to HF also). Separate
> strips

> would cut out some of the transmit/receive switching and could allow
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> operation(with sufficient freq. separation and filtering).
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> of Flash program memory, 20K to 52K Bytes of RAM, a High Speed USB
> interface, I2C, I2S, timers, etc, plus a bootloader in ROM. Some DSP
> instructions are included as well. Only bad is only in 100 or 144 pin TQFP
> or TQBGA packages. The TQFP's are doable by hand(.5mm pin spacing).
> Does anyone have any experience with them. Would it be possible to hang
> one or 2 stereo A/D's onto the I2S bus and decode SSB, CW, and NFM
> plus data
> modes? I think it should have enough horsepower to do that over a narrow
> band without the waterfall.
> The receiver strips would include a set of selectable BPF's(similar to my
> small BPF board). The transmit strip would have enough output to drive a
> 100W amp. My MPLPF board would be used for the transmit LPF.
> I also found 2.6" and 3.5" touch screen TFT LCD displays (240 X 320) for
> $8 and $15!
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> ---
>
> Yahoo! Groups Links
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> _
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>
>

1350. Re: [UHFSDR] New super UHFSDR

Yahoo group: UHFSDR
Date: 2012-12-17 23:05:38 UTC
From: Jim Sanford
Topic: 1342 Message: 1350

This would be way cool. As I understand your vision, only connection to the computer would be USB. Which is perfect for my laptop and a rover microwave station.
73,
Jim

On 12/17/2012 1:01 AM, brainerdd wrote:
>
> I am looking at developing a new transceiver based on the UHFSDR. I
> envision 2 receiver strips and one transmitter strip. That would allow
> cross-banding as in the FT-8800(with VHF or UHF to HF also). Separate
> strips would cut out some of the transmit/receive switching and could
> allow duplex operation(with sufficient freq. separation and filtering).
> I have been looking at controller chips. The ATMEL ATSAM3UXX looks
> really good and is cheap(well under $10 qty 1 and under 5 at qty 25)
> from Mouser and Digikey. They are based on the ARM M3 and have 64K,
> 128K, or 256K Bytes of Flash program memory, 20K to 52K Bytes of RAM,
> a High Speed USB interface, I2C, I2S, timers, etc, plus a bootloader
> in ROM. Some DSP instructions are included as well. Only bad is only
> in 100 or 144 pin TQFP or TQBGA packages. The TQFP's are doable by
> hand(.5mm pin spacing).
> Does anyone have any experience with them. Would it be possible to
> hang one or 2 stereo A/D's onto the I2S bus and decode SSB, CW, and
> NFM plus data modes? I think it should have enough horsepower to do
> that over a narrow band without the waterfall.
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> my small BPF board). The transmit strip would have enough output to
> drive a 100W amp. My MPLPF board would be used for the transmit LPF.
> I also found 2.6" and 3.5" touch screen TFT LCD displays (240 X 320)
> for $8 and $15!
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
>

1351. RE: [UHFSDR] New super UHFSDR

Yahoo group: UHFSDR
Date: 2012-12-17 23:17:57 UTC
From: MIKE DURKIN
Topic: 1342 Message: 1351

What's the processing power compared to a pic32mx795?
Alex Lee already wrote a microchip equivalent to PE0FKO AVR firmware .... and it too has lots of I/O pins ...

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: wb4gcs@amsat.org
Date: Mon, 17 Dec 2012 18:05:38 -0500
Subject: Re: [UHFSDR] New super UHFSDR

This would be way cool. As I understand your vision, only connection to the computer would be USB. Which is perfect for my laptop and a rover microwave station.

73,

Jim

On 12/17/2012 1:01 AM, brainerdd wrote:

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Does anyone have any experience with them. Would it be possible to hang one or 2 stereo A/D's onto the I2S bus and decode SSB, CW, and NFM plus data modes? I think it should have enough horsepower to do that over a narrow band without the waterfall.

The receiver strips would include a set of selectable BPF's(similar to my small BPF board). The transmit strip

would have enough output to drive a 100W amp. My MPLPF board would be used for the transmit LPF.

I also found 2.6" and 3.5" touch screen TFT LCD displays (240 X 320) for $8 and $15!

Dave - WB6DHW

<http://wb6dhw.com>

1352. Re: [UHFSDR] New super UHFSDR

Yahoo group: UHFSDR
Date: 2012-12-17 23:40:26 UTC
From: Glen Overby
Topic: 1342 Message: 1352

Dave writes:
> I have been thinking on this for quite a while. The goal is a
> complete self-contained(with provision to connector to PC and use SDR
> programs) 100W transceiver covering 160 meters to 70 cm and possibly
> 1296 MHz. I would like to have things going in time to have a booth at

Have you decided what software you're going to use for the SDR?

On Linux and my Mac, I run "dttsp", which is the signal processing core from PowerSDR. On Windows it's a DLL but on linux it runs as an independent process. I recall reading that dttsp could be run on a 500mhz processor (probably a pentium or so). I've been using it on my 2ghz Atom system, and basic receive takes about 10% of the CPU for one audio signal. When I turn on the noise reduction, it goes to 40% or so. I'm hoping it will run on a Raspberry Pi.

The SDR Widget project used an I2S interface to a conventional audio chip. Schematics and software for it are available, and might be of some use to you. That project was succeeded by the Audio Widget, but I haven't found it's schematics.

I hope you'll share your filter designs for VHF and UHF, as filters for 50/144/222/432 are the main thing I find missing from the UHFSDR.

Glen, kc0iyt

1353. Re: [UHFSDR] New super UHFSDR

Yahoo group: UHFSDR
Date: 2012-12-18 00:24:38 UTC
From: Dave
Topic: 1342 Message: 1353

Mike:
Looks like the two are fairly close. The PIC is an M4 running at 80 MHz with 1.55 DMIPS/ MHz = 124 MDMips. The SAM3U is an M3 running at 96 MHz with 1.25 DMIPS/MHz = 120 MDMips.

Dave - WB6DHW
<http://wb6dhw.com>

On 12/17/2012 3:17 PM, MIKE DURKIN wrote:
>
> What's the processing power compared to a pic32mx795?
> Alex Lee already wrote a microchip equivalent to PE0FKO AVR firmware
> .... and it too has lots of I/O pins ...
>
> Mike KC7NOA
>
> ----------
> To: UHFSDR@yahoogroups.com
> From: wb4gcs@...
> Date: Mon, 17 Dec 2012 18:05:38 -0500
> Subject: Re: [UHFSDR] New super UHFSDR
>
> This would be way cool. As I understand your vision, only connection
> to the computer would be USB. Which is perfect for my laptop and a
> rover microwave station.
> 73,
> Jim
>
> On 12/17/2012 1:01 AM, brainerdd wrote:
>
> I am looking at developing a new transceiver based on the UHFSDR.
> I envision 2 receiver strips and one transmitter strip. That would
> allow cross-banding as in the FT-8800(with VHF or UHF to HF also).
> Separate strips would cut out some of the transmit/receive
> switching and could allow duplex operation(with sufficient freq.
> separation and filtering).
> I have been looking at controller chips. The ATMEL ATSAM3UXX looks
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> 25) from Mouser and Digikey. They are based on the ARM M3 and have
> 64K, 128K, or 256K Bytes of Flash program memory, 20K to 52K Bytes
> of RAM, a High Speed USB interface, I2C, I2S, timers, etc, plus a
> bootloader in ROM. Some DSP instructions are included as well.
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> TQFP's are doable by hand(.5mm pin spacing).
> Does anyone have any experience with them. Would it be possible to

> hang one or 2 stereo A/D's onto the I2S bus and decode SSB, CW,
> and NFM plus data modes? I think it should have enough horsepower
> to do that over a narrow band without the waterfall.
> The receiver strips would include a set of selectable
> BPF's(similar to my small BPF board). The transmit strip would
> have enough output to drive a 100W amp. My MPLPF board would be
> used for the transmit LPF.
> I also found 2.6" and 3.5" touch screen TFT LCD displays (240 X
> 320) for $8 and $15!
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
>
>
>

1354. Re: [UHFSDR] New super UHFSDR

Yahoo group: UHFSDR
Date: 2012-12-18 00:30:17 UTC
From: Dave
Topic: 1342 Message: 1354

Glen:
I don't know yet for the firmware for the stand alone operation. As for computer operation, any of the SDR packages that work on Softrocks should work. The favorite is SDR-IQ. I have a Raspberry PI and am looking at possibly using it for the DSP.

Dave - WB6DHW
<http://wb6dhw.com>

On 12/17/2012 3:40 PM, Glen Overby wrote:
>
>
> Dave writes:
> > I have been thinking on this for quite a while. The goal is a
> > complete self-contained(with provision to connector to PC and use SDR
> > programs) 100W transceiver covering 160 meters to 70 cm and possibly
> > 1296 MHz. I would like to have things going in time to have a booth at
>
> Have you decided what software you're going to use for the SDR?
>
> On Linux and my Mac, I run "dttsp", which is the signal processing
> core from
> PowerSDR. On Windows it's a DLL but on linux it runs as an independent
> process. I recall reading that dttsp could be run on a 500mhz processor
> (probably a pentium or so). I've been using it on my 2ghz Atom system, and
> basic receive takes about 10% of the CPU for one audio signal. When I turn
> on the noise reduction, it goes to 40% or so. I'm hoping it will run on a
> Raspberry Pi.
>
> The SDR Widget project used an I2S interface to a conventional audio chip.
> Schematics and software for it are available, and might be of some use
> to you.
> That project was succeeded by the Audio Widget, but I haven't found it's
> schematics.
>
> I hope you'll share your filter designs for VHF and UHF, as filters for
> 50/144/222/432 are the main thing I find missing from the UHFSDR.
>
> Glen, kc0iyt
>
> _

1355. Re: [UHFSDR] New super UHFSDR

Yahoo group: UHFSDR
Date: 2012-12-18 00:31:37 UTC
From: Dave
Topic: 1342 Message: 1355

Glen:
I plan on making the rig control functions compatible with either
ICOM or Kenwood CAT commands.

Dave - WB6DHW
<http://wb6dhw.com>

On 12/17/2012 3:40 PM, Glen Overby wrote:
>
>
> Dave writes:
> > I have been thinking on this for quite a while. The goal is a
> > complete self-contained(with provision to connector to PC and use SDR
> > programs) 100W transceiver covering 160 meters to 70 cm and possibly
> > 1296 MHz. I would like to have things going in time to have a booth at
>
> Have you decided what software you're going to use for the SDR?
>
> On Linux and my Mac, I run "dttsp", which is the signal processing
> core from
> PowerSDR. On Windows it's a DLL but on linux it runs as an independent
> process. I recall reading that dttsp could be run on a 500mhz processor
> (probably a pentium or so). I've been using it on my 2ghz Atom system, and
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> Raspberry Pi.
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> Schematics and software for it are available, and might be of some use
> to you.
> That project was succeeded by the Audio Widget, but I haven't found it's
> schematics.
>
> I hope you'll share your filter designs for VHF and UHF, as filters for
> 50/144/222/432 are the main thing I find missing from the UHFSDR.
>
> Glen, kc0iyt
>
>

1356. RE: [UHFSDR] New super UHFSDR

Yahoo group: UHFSDR
Date: 2012-12-18 00:36:13 UTC
From: MIKE DURKIN
Topic: 1342 Message: 1356

I bought 5 off of ebay for 5$ each .... I tried to flash one with a bootloader .... with no life - but I didn't use an external 3.3v regulator at the time of flash ... I forced the pickit3 to provide source power.... later I read lots if people had problems doing that, solved with an on board regulator. Iv placed a 3.3v on the board but haven't tried again .... all might be clone junk for all I know.

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Mon, 17 Dec 2012 16:24:38 -0800
Subject: Re: [UHFSDR] New super UHFSDR

Mike:

Looks like the two are fairly close. The PIC is an M4 running
at 80 MHz with 1.55 DMIPS/ MHz = 124 MDMips. The SAM3U is an M3
running at 96 MHz with 1.25 DMIPS/MHz = 120 MDMips.

Dave - WB6DHW

<http://wb6dhw.com>

On 12/17/2012 3:17 PM, MIKE DURKIN wrote:

What's the processing power compared to a
pic32mx795?

Alex Lee already wrote a microchip equivalent to PE0FKO
AVR firmware .... and it too has lots of I/O pins ...

Mike KC7NOA

To: UHFSDR@yahoogroups.com

From: wb4gcs@amsat.org

Date: Mon, 17 Dec 2012 18:05:38 -0500

Subject: Re: [UHFSDR] New super UHFSDR

This would be way cool. As I
understand your vision, only connection to the
computer would be USB. Which is perfect for my
laptop and a rover microwave station.

73,

Jim

On 12/17/2012 1:01
AM, brainerdd wrote:

I am looking at developing a new transceiver based on the UHFSDR. I envision 2 receiver strips and one transmitter strip. That would allow cross-banding as in the FT-8800(with VHF or UHF to HF also). Separate strips would cut out some of the transmit/receive switching and could allow duplex operation(with sufficient freq. separation and filtering).

I have been looking at controller chips. The ATMEL ATSAM3UXX looks really good and is cheap(well under $10 qty 1 and under 5 at qty 25) from Mouser and Digikey. They are based on the ARM M3 and have 64K, 128K, or 256K Bytes of Flash program memory, 20K to 52K Bytes of RAM, a High Speed USB interface, I2C, I2S, timers, etc, plus a bootloader in ROM. Some DSP instructions are included as well. Only bad is only in 100 or 144 pin TQFP or TQBGA packages. The TQFP's are doable by hand(.5mm pin spacing).

Does anyone have any experience with them. Would it be possible to hang one or 2 stereo A/D's onto the I2S bus and decode SSB, CW, and NFM plus data modes? I think it should have enough horsepower to do that over a narrow band without the waterfall.

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I also found 2.6" and 3.5" touch screen TFT LCD displays (240 X 320) for $8 and $15!

Dave - WB6DHW

<http://wb6dhw.com>

1357. Re: [UHFSDR] New super UHFSDR

Yahoo group: UHFSDR
Date: 2012-12-18 00:57:16 UTC
From: Sid Boyce
Topic: 1342 Message: 1357

http://www.bunniestudios.com/blog/?p=2686
They keep coming and this one envisages a laptop.
FPGA included and fully open hardware with schematics.

This is the guy who did some stuff with the Chumby
73 ... Sid.

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1358. Re: [UHFSDR] New super UHFSDR

Yahoo group: UHFSDR
Date: 2012-12-18 09:33:58 UTC
From: John
Topic: 1342 Message: 1358

Do you have a pointer to details of Alex Lee's PIC PE0FKO AVR firmware equivalent?
I am interested in the extra I/O pins.

John G3UGY

Alex Lee already wrote a microchip equivalent to PE0FKO AVR firmware .... and it too has lots of I/O pins ...

Mike KC7NOA

1359. Re: [UHFSDR] New super UHFSDR

Yahoo group: UHFSDR
Date: 2012-12-18 12:51:22 UTC
From: Sid Boyce
Topic: 1342 Message: 1359

http://www.mobokits.stormwarning.org/content/mobo-43-files?fid=320
Mobo-AT90USB162-1-08.zip
73 ... Sid.

On 18/12/12 09:33, John wrote:
>
> Do you have a pointer to details of Alex Lee's PIC PE0FKO AVR firmware
> equivalent?
> I am interested in the extra I/O pins.
> John G3UGY
>
>
> Alex Lee already wrote a microchip equivalent to PE0FKO AVR firmware
> .... and it too has lots of I/O pins ...
>
> Mike KC7NOA
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1360. Re: New super UHFSDR

Yahoo group: UHFSDR
Date: 2012-12-18 15:16:29 UTC
From: kb7anl
Topic: 1342 Message: 1360

This sounds great for my Backpacking adventure.
Dean
KB7ANL
Twin Falls, Idaho
--- In UHFSDR@yahoogroups.com, "brainerdd" wrote:

I am looking at developing a new transceiver based on the UHFSDR. I envision 2 receiver strips and one transmitter strip. That would allow cross-banding as in the FT-8800(with VHF or UHF to HF also). Separate strips would cut out some of the transmit/receive switching and could allow duplex operation(with sufficient freq. separation and filtering).
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I also found 2.6" and 3.5" touch screen TFT LCD displays (240 X 320) for $8 and $15!

Dave - WB6DHW

1361. RE: [UHFSDR] Re: New super UHFSDR

Yahoo group: UHFSDR
Date: 2012-12-18 15:34:32 UTC
From: MIKE DURKIN
Topic: 1342 Message: 1361

I think the "hurt me" aspect .... of the Cross bad idea... if uhf/vhf - is the cost of 2 Si570'classA/B ....

Just sayin....

To: UHFSDR@yahoogroups.com
From: kb7anl@...
Date: Tue, 18 Dec 2012 15:16:29 +0000
Subject: [UHFSDR] Re: New super UHFSDR

This sounds great for my Backpacking adventure.

Dean

KB7ANL

Twin Falls, Idaho

--- In UHFSDR@yahoogroups.com, "brainerdd" wrote:

I am looking at developing a new transceiver based on the UHFSDR. I envision 2 receiver strips and one transmitter strip. That would allow cross-banding as in the FT-8800(with VHF or UHF to HF also). Separate strips would cut out some of the transmit/receive switching and could allow duplex operation(with sufficient freq. separation and filtering).

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Dave - WB6DHW

1362. Re: New super UHFSDR

Yahoo group: UHFSDR
Date: 2012-12-18 18:59:33 UTC
From: Mathison Ott
Topic: 1342 Message: 1362

YESSSSS!

the LM97593 dose dds or ,GC6016 , the ADC12D1800 is a 12-Bit, Single 3.6 GSPS ADC .

2 wide band receive channels would be cutting edge!

the LM97593 was used in the andrus, it acts as the sound card in combination with is arm cpu.
http://uvb-76.net/p/sdr-mk15-andrus.html

The LMK03806 may be over kill for a Ultra-low jitter clock generator with 14 outputs...

I did a presentation to my local radio club about sdr's enjoy.
http://qsl.net/kj6dzb/stuff/W6cus%20sdr%20talk%20by%20KJ6DZB.pdf

73 mathison kj6dzb

1363. RE: [UHFSDR] New super UHFSDR

Yahoo group: UHFSDR
Date: 2012-12-18 20:11:42 UTC
From: Simon G4ELI/HB9DRV
Topic: 1342 Message: 1363

Dave,

Kenwood - please!!!

Simon G4ELI/HB9DRV

http://dit-dit-dit.com

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Dave

I plan on making the rig control functions compatible with either ICOM or Kenwood CAT commands.

1364. RaspberyPI 4 sale

Yahoo group: UHFSDR
Date: 2012-12-24 06:21:12 UTC
From: MIKE DURKIN
Topic: 1364 Message: 1364

ok, so its official ... i have a RaspberryPI "B" for sale ... thought i was going to use it .. but no

never been powered ..... far as i got was to get a micro HDMI adapter and flash a microSD for it .. turns out you cant use an SdCard adapter ....

Sale is for only the RaspberryPi ... looking for 35for the Rasp, 5 for shipping and if using Paypal(which i like) add another 3% (because thats what they always seem to take on transfers)

Mike KC7NOA

If interested Plz email direct ....

1365. Is there a commercial receiver similar to the UHFSDR?

Yahoo group: UHFSDR
Date: 2012-12-24 18:26:32 UTC
From: Rob Frohne
Topic: 1365 Message: 1365

Hi All,

Is there a commercial receiver similar to the UHFSDR? I a considering setting up an automatic receiver to measure harmonics of a shortwave broadcast station, so they can be sure the tuning of the output low pass ladder network is correct, and may use the UHFSDR, but would prefer to purchase something instead of having to build one.

73,

Rob
KL7NA

--
Rob Frohne, PhD, PE
Professor
EF Cross School of Engineering
Walla Walla University
100 SW 4th Street
College Place, WA 99324
(509) 527-2075

1366. Re: [UHFSDR] Is there a commercial receiver similar to the UHFSDR?

Yahoo group: UHFSDR
Date: 2012-12-24 18:33:07 UTC
From: Marcus D. Leech
Topic: 1365 Message: 1366

On 24/12/12 01:26 PM, Rob Frohne wrote:
>
>
> Hi All,
>
> Is there a commercial receiver similar to the UHFSDR? I a considering
> setting up an automatic receiver to measure harmonics of a shortwave
> broadcast station, so they can be sure the tuning of the output low pass
> ladder network is correct, and may use the UHFSDR, but would prefer to
> purchase something instead of having to build one.
>
> 73,
>
> Rob
> KL7NA
>
> --
> Rob Frohne, PhD, PE
> Professor
> EF Cross School of Engineering
> Walla Walla University
> 100 SW 4th Street
> College Place, WA 99324
> (509) 527-2075
>
> _
> .
>
>
A USRP with a WBX daughtercard?

--
Principal Investigator
Shirleys Bay Radio Astronomy Consortium
http://www.sbrac.org

1367. Re: [UHFSDR] Is there a commercial receiver similar to the UHFSDR?

Yahoo group: UHFSDR
Date: 2012-12-24 18:37:56 UTC
From: mstangelo@comcast.net
Topic: 1365 Message: 1367

You can check out the Winradio wideband receiver:

<http://www.winradio.com/home/g39ddce.htm>

Mike N2MS
----- Original Message -----
From: Rob Frohne <rob.frohne@...>
To: UHFSDR@yahoogroups.com
Sent: Mon, 24 Dec 2012 18:26:32 -0000 (UTC)
Subject: [UHFSDR] Is there a commercial receiver similar to the UHFSDR?

Hi All,

Is there a commercial receiver similar to the UHFSDR? I a considering setting up an automatic receiver to measure harmonics of a shortwave broadcast station, so they can be sure the tuning of the output low pass ladder network is correct, and may use the UHFSDR, but would prefer to purchase something instead of having to build one.

73,

Rob
KL7NA

1368. SAQ 17.2KHz 24-12-2012 reception

Yahoo group: UHFSDR
Date: 2012-12-25 18:51:43 UTC
From: SW1IXP
Topic: 1368 Message: 1368

A successful reception of SAQ's transmission in Grimeton at 24-12-2012 has been made in Athens, Greece. A 5 meter vertical wire was used as the antenna , feeding a VLF upconverter. The upconverter's output was then fed to an SDR (built around the UHFSDR and USB2SDR boards). The XVTR capabilities in PowerSDR were used so as to display the correct frequency.
Homebrew SDR info: https://rapidshare.com/files/1156263032/My%20SDR.pdf
Video link: http://www.youtube.com/watch?v=VnAI1H0s6gU

73 de SV1IXP

UHFSDR + USB2SDR + BPF/LPF + 100WPA HF/VHF/UHF

1369. Re: The Warthog

Yahoo group: UHFSDR
Date: 2013-01-07 12:04:33 UTC
From: W. Haslinger
Topic: 1299 Message: 1369

Hi Bob,
i built a similar configuration with UHFSDR & SDR2GO which works really fine (except the only +11dBm TX@430Mhz). You seem to have solved the next challenge (switching / filterin / amplifying different dedicated bands) very elegant. Do you have some more information on the SP4T switching boards , the TX AMps and the LNAs ?

Main interrest is around 400-500Mhz, as i will be using it as an exciter for my microwave transverters (10, 24, 67 Ghz)

73s
Wolfgang

--- In UHFSDR@yahoogroups.com, rhillard@... wrote:
>
> In the Photos section, I have uploaded a few pictures of my IF Radio transceiver that uses the UHFSDR and SDR2GO boards.
>
> The transceiver acts as the IF Radio for my 33cm and 23cm transverters, and also is a transceiver for the 222 MHz and 432 MHz bands.
>
> This is a 'stand alone' radio (no computer required), using the SDR2GO board developed by members of the Austin QRP club.
>
> More pictures to follow. . . . .
>
> Bob WA6UFQ
>

1370. Re: Si570BBA

Yahoo group: UHFSDR
Date: 2013-01-07 14:08:07 UTC
From: W. Haslinger
Topic: 1294 Message: 1370

is it still available ?

Wolfgang OE3WHU

--- In UHFSDR@yahoogroups.com, MIKE DURKIN wrote:
>
>
> I have a Si570BBA(1.41Ghz) im interested in selling ... Its unused.
>
> Im asking 65$ plus shipping. Its my last high grade si570....
>
> Mike KC7NOA
>

1371. uhfsdr

Yahoo group: UHFSDR
Date: 2013-01-11 10:38:05 UTC
From: michel
Topic: 1371 Message: 1371

hello

is there a possibility to adjust the dividers by 2 uhfsdr why it is not it works with the map widget? or another solution?
thank you

73 michel f1chm

1372. Re: [UHFSDR] uhfsdr

Yahoo group: UHFSDR
Date: 2013-01-11 11:05:23 UTC
From: Dave
Topic: 1371 Message: 1372

Michel:
The dividers are fixed divide by 2 and cannot be adjusted. What is
"map widget"?

Dave - WB6DHW
<http://wb6dhw.com>

On 1/11/2013 2:38 AM, michel wrote:
>
> hello
>
> is there a possibility to adjust the dividers by 2 uhfsdr why it is
> not it works with the map widget? or another solution?
> thank you
>
> 73 michel f1chm
>
>

1373. RE: [UHFSDR] uhfsdr

Yahoo group: UHFSDR
Date: 2013-01-11 11:51:59 UTC
From: marc olanié
Topic: 1371 Message: 1373
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Dave et All

☐Map Widget☐ is a nonsense generated by Google Translate :-)) In fact, the question should have been asked on the SDR-Widget mailing list, but some recent thread written by Larry W9AMR justified this demand

More precisely :

Michel is quite aware that the L.O. division ration cannot be change in the UHFSDR itself. He is using it for more than 3 or 4 years and built 8 or 9 different SDR systems.

He recently built George☐s SDR-Widget µC/audio/USB interface card, and wonder how to use it to drive the Si570 located on the UHFSDR. From scratch, the firmware of the Widget is designed to drive a softrock based transceiver, with a ☐by 4☐ division ratio of the local oscillator. And he was wondering how to change this division ratio ☐in☐ the SDR-Widget to command and control the UHFSDR without having a wrong frequency on the LDC display of the widget.

I think I don☐t betray Michel☐s thought

73☐

Marc f6itu

De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] De la part de Dave
Envoyé : vendredi 11 janvier 2013 12:05
À : UHFSDR@yahoogroups.com
Objet : Re: [UHFSDR] uhfsdr

Michel:
The dividers are fixed divide by 2 and cannot be adjusted. What is "map widget"?

Dave - WB6DHW
<http://wb6dhw.com> <http://wb6dhw.com>

On 1/11/2013 2:38 AM, michel wrote:

hello

is there a possibility to adjust the dividers by 2 uhfsdr why it is not it works with the map widget? or another solution?
thank you

73 michel f1chm

1374. RE: [UHFSDR] uhfsdr

Yahoo group: UHFSDR
Date: 2013-01-11 11:50:58 UTC
From: michel f1chm
Topic: 1371 Message: 1374

hi Dave

http://www.yoyodyneconsulting.ca/pages/Contact.html

michel

De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] De la part de Dave
Envoyé : vendredi 11 janvier 2013 12:05
À : UHFSDR@yahoogroups.com
Objet : Re: [UHFSDR] uhfsdr

Michel:
The dividers are fixed divide by 2 and cannot be adjusted. What is "map widget"?

Dave - WB6DHW
<http://wb6dhw.com> <http://wb6dhw.com>

On 1/11/2013 2:38 AM, michel wrote:

hello

is there a possibility to adjust the dividers by 2 uhfsdr why it is not it works with the map widget? or another solution?
thank you

73 michel f1chm

1375. Re: [UHFSDR] uhfsdr

Yahoo group: UHFSDR
Date: 2013-01-11 19:51:42 UTC
From: Dave
Topic: 1371 Message: 1375

Marc:

Thanks for the clarification. Quite a few are using the UHFSDR with the SDR Widget. Should be able to find the correct settings on the SDR-Widget mailing list.

Dave - WB6DHW
<http://wb6dhw.com>

On 1/11/2013 3:51 AM, marc olani? wrote:
>
> Hi Dave et All
>
> "Map Widget" is a nonsense generated by Google Translate :-)) In
> fact, the question should have been asked on the SDR-Widget mailing
> list, but some recent thread written by Larry W9AMR justified this demand
>
> More precisely :
>
> Michel is quite aware that the L.O. division ration cannot be change
> in the UHFSDR itself. He is using it for more than 3 or 4 years and
> built 8 or 9 different SDR systems.
>
> He recently built George's SDR-Widget ?C/audio/USB interface card, and
> wonder how to use it to drive the Si570 located on the UHFSDR. From
> scratch, the firmware of the Widget is designed to drive a softrock
> based transceiver, with a "by 4" division ratio of the local
> oscillator. And he was wondering how to change this division ratio
> "in" the SDR-Widget to command and control the UHFSDR without having a
> wrong frequency on the LDC display of the widget.
>
> I think I don't betray Michel's thought
>
> 73'
>
> Marc f6itu
>
> *De :*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] *De la
> part de* Dave
> *Envoy? :* vendredi 11 janvier 2013 12:05
> *? :* UHFSDR@yahoogroups.com
> *Objet :* Re: [UHFSDR] uhfsdr
>
>
>
>

> Michel:
> The dividers are fixed divide by 2 and cannot be adjusted. What is
> "map widget"?
>
> Dave - WB6DHW
> <http://wb6dhw.com> <http://wb6dhw.com>
>
> On 1/11/2013 2:38 AM, michel wrote:
>
> hello
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> is there a possibility to adjust the dividers by 2 uhfsdr why it
> is not it works with the map widget? or another solution?
> thank you
>
> 73 michel f1chm
>
>
>
>
>
>

1376. PowerSDR v2.4.4 for Homemade Rigs and UHFSDR

Yahoo group: UHFSDR
Date: 2013-01-14 23:08:54 UTC
From: tony_g3ovh
Topic: 1376 Message: 1376

Apologies for cross posting (as well on PowerSDR-IQ) but trying to get an answer before I go mad:

I have scoured all the groups for the answer to this but have failed:
I just installed PowerSDR v2.4.4 for Homemade Rigs, having been successfully using PowerSDR-IQ v 1.12.20 with the UHFSDR, Delta 44 sound card and QRP2000 USB controlled Si570 synthesiser modified to drive the SI570 on the UHFSDR. This uses the ATTiny45 programmed with DG8ASQ firmware. PowerSDR-IQ had the necessary tick box for the UHFSDR divide-by-2 operation. However, I cannot get the same functionality with the new version. It is driving the Si570 OK, but at 2X the needed frequency - i can for instance receive 70.00MHz at a setting of 35.009MHz. I found a suggestion about using SdrSi570Usb.dll, but PowerSDR v2.4.4 doesn't recognise this. I tried renaming SdrSi570Usb.dll to SdrSi570Usb.dll but that made no difference.
Any help would be most welcome.
Tony

1377. Full Kits

Yahoo group: UHFSDR
Date: 2013-01-25 18:00:44 UTC
From: The Silver Fox
Topic: 135 Message: 1377

I want to thank all of you who have purchased the full kit from me over the years. The current interest in the kits appears to be waning and I cannot afford to purchase another bulk buy of the Si570s without more cash flow. If you are currently considering purchasing the full kit, please do so soon else I will have to announce a halt in production. I need about five more purchases to kick off the new batch of kits. For those interested, I am willing to encourage the purchase by offering $10 off the price in my signature. If I don't get enough orders, I will refund your money within six weeks.

73,

Alan - W6ARH

Mobokits <http://mobokits.stormwarning.org/>
http://mobokits.stormwarning.org/

UHFSDR Full Kit <http://wb6dhw.com/For_Sale.html>
http://wb6dhw.com/For_Sale.html $206 US $210 DX (Paypal)

1378. Re: [UHFSDR] Full Kits

Yahoo group: UHFSDR
Date: 2013-01-25 19:42:55 UTC
From: Jim Sanford
Topic: 135 Message: 1378

Alan:

Have been considering another kit for the rover, but haven't had much time to do anything with the first one. Will see if I can do another one within the next month.

Thanks & 73,
Jim
wb4gcs@...

On 1/25/2013 1:00 PM, The Silver Fox wrote:
>
> I want to thank all of you who have purchased the full kit from me
> over the years. The current interest in the kits appears to be waning
> and I cannot afford to purchase another bulk buy of the Si570s without
> more cash flow. If you are currently considering purchasing the full
> kit, please do so soon else I will have to announce a halt in
> production. I need about five more purchases to kick off the new
> batch of kits. For those interested, I am willing to encourage the
> purchase by offering $10 off the price in my signature. If I don't
> get enough orders, I will refund your money within six weeks.
>
> 73,
>
> Alan -- W6ARH
>
> Mobokits http://mobokits.stormwarning.org/
>
> UHFSDR Full Kit http://wb6dhw.com/For_Sale.html $206 US $210 DX (Paypal)
>
>

1379. Re: [UHFSDR] Full Kits

Yahoo group: UHFSDR
Date: 2013-01-25 20:01:20 UTC
From: Peter
Topic: 135 Message: 1379

How much are the full kits again? And what's included?

73
Peter
M1PFS

On 25 Jan 2013, at 07:42 PM, Jim Sanford <wb4gcs@...> wrote:

> Alan:
>
> Have been considering another kit for the rover, but haven't had much time to do anything with the first one. Will see if I can do another one within the next month.
>
> Thanks & 73,
> Jim
> wb4gcs@...
>
>
> On 1/25/2013 1:00 PM, The Silver Fox wrote:
>>
>> I want to thank all of you who have purchased the full kit from me over the years. The current interest in the kits appears to be waning and I cannot afford to purchase another bulk buy of the Si570s without more cash flow. If you are currently considering purchasing the full kit, please do so soon else I will have to announce a halt in production. I need about five more purchases to kick off the new batch of kits. For those interested, I am willing to encourage the purchase by offering $10 off the price in my signature. If I don’t get enough orders, I will refund your money within six weeks.
>>
>> 73,
>>
>> Alan – W6ARH
>>
>>
>>
>>
>>
>> Mobokits http://mobokits.stormwarning.org/
>>
>> UHFSDR Full Kit http://wb6dhw.com/For_Sale.html $206 US $210 DX (Paypal)
>>
>
>

1380. Re: [UHFSDR] Full Kits

Yahoo group: UHFSDR
Date: 2013-01-25 20:38:31 UTC
From: Gareth Jones
Topic: 135 Message: 1380

Hi there Alan !

I am looking at getting another UHFSDR kit but not till end March as monies here are tight.

Look forward to making the order.

Take care in the group

73's Gareth Jones

2E0GGO

Sent from Yahoo! Mail for Windows 8

From: Peter <peteysymonds@...>
Sent: □January□ □25□, □2013 □8□:□01□ □PM
To: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com>
Subject: Re: [UHFSDR] Full Kits

How much are the full kits again? And what's included?

73
Peter
M1PFS

On 25 Jan 2013, at 07:42 PM, Jim Sanford <wb4gcs@...> wrote:

Alan:

Have been considering another kit for the rover, but haven't had much time to do anything with the first one. Will see if I can do another one within the next month.

Thanks & 73,
Jim
wb4gcs@amsat.org

On 1/25/2013 1:00 PM, The Silver Fox wrote:

I want to thank all of you who have purchased the full kit from me over the years. The current interest in the kits appears to be waning and I cannot afford to purchase another bulk buy of the Si570s without more cash flow. If you are currently considering purchasing the full kit, please do so soon else I will have to announce a halt in production. I need about five more purchases to kick off the new batch of kits. For those interested, I am willing to encourage the purchase by offering $10 off the price in my signature. If I don’t get enough orders, I will refund your money within six weeks.

73,

Alan – W6ARH

Mobokits http://mobokits.stormwarning.org/

UHFSDR Full Kit http://wb6dhw.com/For_Sale.html $206 US $210 DX (Paypal)

1381. RE: [UHFSDR] Full Kits

Yahoo group: UHFSDR
Date: 2013-01-25 23:42:22 UTC
From: Dave Watson
Topic: 135 Message: 1381

Good question, I've been looking, just need a little nudge to get me moving.

Dave (W4DJW)

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Peter
Sent: Friday, January 25, 2013 3:01 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Full Kits

How much are the full kits again? And what's included?

73

Peter

M1PFS

On 25 Jan 2013, at 07:42 PM, Jim Sanford <wb4gcs@...> wrote:

Alan:

Have been considering another kit for the rover, but haven't had much time to do anything with the first one. Will see if I can do another one within the next month.

Thanks & 73,
Jim
wb4gcs@...

On 1/25/2013 1:00 PM, The Silver Fox wrote:

I want to thank all of you who have purchased the full kit from me over the years. The current interest in the kits appears to be waning and I cannot afford to purchase another bulk buy of the Si570s without more cash flow. If you are currently considering purchasing the full kit, please do so soon else I will have to announce a halt in production. I need about five more purchases to kick off the new batch of kits. For those interested, I am willing to encourage the purchase by offering $10 off the price in my signature. If I don’t get enough orders, I will refund your money within six weeks.

73,

Alan – W6ARH

Mobokits http://mobokits.stormwarning.org/

UHFSDR Full Kit http://wb6dhw.com/For_Sale.html $206 US $210 DX (Paypal)

1382. RE: [UHFSDR] Full Kits

Yahoo group: UHFSDR
Date: 2013-01-26 01:44:59 UTC
From: The Silver Fox
Topic: 135 Message: 1382

I have to wonder why folks cannot deduce the instructions to look at my signature file.

Alan - W6ARH

Mobokits http://mobokits.stormwarning.org/

UHFSDR Full Kit http://wb6dhw.com/For_Sale.html $206 US $210 DX (via Paypal to my email address)

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Dave Watson
Sent: Friday, January 25, 2013 3:42 PM
To: UHFSDR@yahoogroups.com
Subject: RE: [UHFSDR] Full Kits

Good question, I've been looking, just need a little nudge to get me moving.

Dave (W4DJW)

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Peter
Sent: Friday, January 25, 2013 3:01 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Full Kits

How much are the full kits again? And what's included?

73

Peter

M1PFS

On 25 Jan 2013, at 07:42 PM, Jim Sanford <wb4gcs@...> wrote:

Alan:

Have been considering another kit for the rover, but haven't had much time to do anything with the first one. Will see if I can do another one within the next month.

Thanks & 73,
Jim
wb4gcs@...

On 1/25/2013 1:00 PM, The Silver Fox wrote:

I want to thank all of you who have purchased the full kit from me over the years. The current interest in the kits appears to be waning and I cannot afford to purchase another bulk buy of the Si570s without more cash flow. If you are currently considering purchasing the full kit, please do so soon else I will have to announce a halt in production. I need about five more purchases to kick off the new batch of kits. For those interested, I am

willing to encourage the purchase by offering $10 off the price in my signature. If I don’t get enough orders, I will refund your money within six weeks.

73,

Alan – W6ARH

Mobokits http://mobokits.stormwarning.org/

UHFSDR Full Kit http://wb6dhw.com/For_Sale.html $206 US $210 DX (Paypal)

1383. RE: [UHFSDR] Full Kits

Yahoo group: UHFSDR
Date: 2013-01-26 01:48:46 UTC
From: The Silver Fox
Topic: 135 Message: 1383

For those interested, I am negotiating buying more si570's for future kits. The vendor is quoting me a price that is $26 a chip higher in cost than my last purchase. So, I am interested in what the impact would be for me to pass on my costs in the kit price. Realize while contemplating it that I have to add the tax, shipping and cost of money to that increase.

73,

Alan – W6ARH

Mobokits http://mobokits.stormwarning.org/

UHFSDR Full Kit http://wb6dhw.com/For_Sale.html $206 US $210 DX (via Paypal to my email address)

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Dave Watson
Sent: Friday, January 25, 2013 3:42 PM
To: UHFSDR@yahoogroups.com
Subject: RE: [UHFSDR] Full Kits

Good question, I've been looking, just need a little nudge to get me moving.

Dave (W4DJW)

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Peter
Sent: Friday, January 25, 2013 3:01 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Full Kits

How much are the full kits again? And what's included?

73

Peter

M1PFS

On 25 Jan 2013, at 07:42 PM, Jim Sanford <wb4gcs@...> wrote:

Alan:

Have been considering another kit for the rover, but haven't had much time to do anything with the first one. Will see if I can do another one within the next month.

Thanks & 73,
Jim
wb4gcs@...

On 1/25/2013 1:00 PM, The Silver Fox wrote:

I want to thank all of you who have purchased the full kit from me over the years. The current interest in the kits appears to be waning and I cannot afford to purchase another bulk buy of the Si570s without more cash flow. If you are currently considering purchasing the full kit, please do so soon else I will have to announce a halt in production. I need about five more purchases to kick off the new batch of kits. For those interested, I am willing to encourage the purchase by offering $10 off the price in my signature. If I don't get enough orders, I will refund your money within six weeks.

73,

Alan – W6ARH

Mobokits http://mobokits.stormwarning.org/

UHFSDR Full Kit http://wb6dhw.com/For_Sale.html $206 US $210 DX (Paypal)

1384. Re: [UHFSDR] Full Kits

Yahoo group: UHFSDR
Date: 2013-01-26 03:07:02 UTC
From: Jim Sanford
Topic: 135 Message: 1384

Squirm the vendor. More $$ ==> no sale. I'm interested regardless, but
don't be intimidated.
Jim

On 1/25/2013 8:48 PM, The Silver Fox wrote:
>
> For those interested, I am negotiating buying more si570’s for future
> kits. The vendor is quoting me a price that is $26 a chip higher in
> cost than my last purchase. So, I am interested in what the impact
> would be for me to pass on my costs in the kit price. Realize while
> contemplating it that I have to add the tax, shipping and cost of
> money to that increase.
>
> 73,
>
> Alan – W6ARH
>
> Mobokits http://mobokits.stormwarning.org/
>
> UHFSDR Full Kit http://wb6dhw.com/For_Sale.html $206 US $210 DX (via
> Paypal to my email address)
>
> *From:*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] *On
> Behalf Of *Dave Watson
> *Sent:* Friday, January 25, 2013 3:42 PM
> *To:* UHFSDR@yahoogroups.com
> *Subject:* RE: [UHFSDR] Full Kits
>
> Good question, I've been looking, just need a little nudge to get me
> moving.
>
> Dave (W4DJW)
>
> *From:*UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> [mailto:UHFSDR@yahoogroups.com] *On Behalf Of *Peter
> *Sent:* Friday, January 25, 2013 3:01 PM
> *To:* UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> *Subject:* Re: [UHFSDR] Full Kits
>
> How much are the full kits again? And what's included?
>
> 73
>
> Peter
>

> M1PFS
>
> On 25 Jan 2013, at 07:42 PM, Jim Sanford <wb4gcs@...
> <mailto:wb4gcs@...>> wrote:
>
> Alan:
>
> Have been considering another kit for the rover, but haven't had
> much time to do anything with the first one. Will see if I can do
> another one within the next month.
>
> Thanks & 73,
> Jim
> wb4gcs@... <mailto:wb4gcs@...>
>
>
> On 1/25/2013 1:00 PM, The Silver Fox wrote:
>
> I want to thank all of you who have purchased the full kit
> from me over the years. The current interest in the kits
> appears to be waning and I cannot afford to purchase another
> bulk buy of the Si570s without more cash flow. If you are
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> purchase by offering $10 off the price in my signature. If I
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>
> Alan – W6ARH
>
> Mobokits http://mobokits.stormwarning.org/
>
> UHFSDR Full Kit http://wb6dhw.com/For_Sale.html $206 US $210
> DX (Paypal)
>
>

1385. Re: [UHFSDR] Full Kits

Yahoo group: UHFSDR
Date: 2013-01-26 03:07:38 UTC
From: Jim Sanford
Topic: 135 Message: 1385

Yeah, I noticed that, too. Pls don't take it personally.
I apreciate what you do and have done.
73,
Jim
wb4gcs@...

On 1/25/2013 8:44 PM, The Silver Fox wrote:
>
> I have to wonder why folks cannot deduce the instructions to look at
> my signature file.
>
> Alan – W6ARH
>
> Mobokits http://mobokits.stormwarning.org/
>
> UHFSDR Full Kit http://wb6dhw.com/For_Sale.html $206 US $210 DX (via
> Paypal to my email address)
>
> *From:*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] *On
> Behalf Of *Dave Watson
> *Sent:* Friday, January 25, 2013 3:42 PM
> *To:* UHFSDR@yahoogroups.com
> *Subject:* RE: [UHFSDR] Full Kits
>
> Good question, I've been looking, just need a little nudge to get me
> moving.
>
> Dave (W4DJW)
>
> *From:*UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> [mailto:UHFSDR@yahoogroups.com] *On Behalf Of *Peter
> *Sent:* Friday, January 25, 2013 3:01 PM
> *To:* UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> *Subject:* Re: [UHFSDR] Full Kits
>
> How much are the full kits again? And what's included?
>
> 73
>
> Peter
>
> M1PFS
>
> On 25 Jan 2013, at 07:42 PM, Jim Sanford <wb4gcs@...
> <mailto:wb4gcs@...>> wrote:

>
> Alan:
>
> Have been considering another kit for the rover, but haven't had
> much time to do anything with the first one. Will see if I can do
> another one within the next month.
>
> Thanks & 73,
> Jim
> wb4gcs@... <mailto:wb4gcs@...>
>
>
> On 1/25/2013 1:00 PM, The Silver Fox wrote:
>
> I want to thank all of you who have purchased the full kit
> from me over the years. The current interest in the kits
> appears to be waning and I cannot afford to purchase another
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> soon else I will have to announce a halt in production. I
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> kits. For those interested, I am willing to encourage the
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> 73,
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> Alan – W6ARH
>
> Mobokits http://mobokits.stormwarning.org/
>
> UHFSDR Full Kit http://wb6dhw.com/For_Sale.html $206 US $210
> DX (Paypal)
>
>

1386. Full kits

Yahoo group: UHFSDR
Date: 2013-01-28 23:27:34 UTC
From: The Silver Fox
Topic: 1386 Message: 1386

I am currently out of stock for the Si570's and I am trying to negotiate a better price with the vendor. The bad news is that I cannot accept further orders without the caveat of a price increase.

Hopefully, this will be resolved this week and then there is a four week wait for new chips. Thank you for your support.

73,

Alan - W6ARH

Mobokits <http://mobokits.stormwarning.org/>
http://mobokits.stormwarning.org/

UHFSDR Full Kit <http://wb6dhw.com/For_Sale.html>
http://wb6dhw.com/For_Sale.html

1387. Re: Full kits

Yahoo group: UHFSDR
Date: 2013-01-29 22:57:48 UTC
From: kb7anl
Topic: 1386 Message: 1387

Alan
I really hope you have success. As a newbie I have been waiting to see this ordering system resolved. It has had me worried. Ordering then waiting 4 weeks is not fun. My goal was to have this part of my backpacking trip this summer. So should look at other all band HF kits, Until you get this resolved? Sorry to see this one falling apart. Thanks
Dean
KB7ANL

--- In UHFSDR@yahoogroups.com, "The Silver Fox" wrote:
>
> I am currently out of stock for the Si570's and I am trying to negotiate a
> better price with the vendor. The bad news is that I cannot accept further
> orders without the caveat of a price increase.
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> Hopefully, this will be resolved this week and then there is a four week
> wait for new chips. Thank you for your support.
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> 73,
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> Alan - W6ARH
>
>
>
> Mobokits
> http://mobokits.stormwarning.org/
>
> UHFSDR Full Kit
> http://wb6dhw.com/For_Sale.html
>

1388. RE: [UHFSDR] Re: Full kits

Yahoo group: UHFSDR
Date: 2013-01-29 23:01:44 UTC
From: MIKE DURKIN
Topic: 1386 Message: 1388

You could get a low grade lvds si570 and only have HF till you want UHF/VHF

To: UHFSDR@yahoogroups.com
From: kb7anl@...
Date: Tue, 29 Jan 2013 22:57:48 +0000
Subject: [UHFSDR] Re: Full kits

Alan

I really hope you have success. As a newbie I have been waiting to see this ordering system resolved. It has had me worried. Ordering then waiting 4 weeks is not fun. My goal was to have this part of my backpacking trip this summer. So should look at other all band HF kits, Until you get this resolved? Sorry to see this one falling apart. Thanks

Dean

KB7ANL

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> wait for new chips. Thank you for your support.

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> 73,

>

> Alan - W6ARH

>

>

>

> Mobokits

> http://mobokits.stormwarning.org/

>

> UHFSDR Full Kit

> http://wb6dhw.com/For_Sale.html

>

1389. Re: [UHFSDR] Re: Full kits

Yahoo group: UHFSDR
Date: 2013-01-30 00:08:28 UTC
From: Sid Boyce
Topic: 1386 Message: 1389

Hi Dean,
Alan cannot sink money into stock that won't shift easily so he needs to ensure there are enough orders to justify the outlay to provide kits at a reasonable price.

He is only a volunteer who has graciously taken on the project after Art could no longer devote time or resources to it. If he hadn't it would have folded a long time ago.
73 ... Sid.

On 29/01/13 22:57, kb7anl wrote:
>
> Alan
> I really hope you have success. As a newbie I have been waiting to see
> this ordering system resolved. It has had me worried. Ordering then
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> kits, Until you get this resolved? Sorry to see this one falling
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> Dean
> KB7ANL
>
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> > 73,
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> > Alan - W6ARH
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> >
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1390. RE: [UHFSDR] Re: Full kits

Yahoo group: UHFSDR
Date: 2013-01-30 01:39:06 UTC
From: The Silver Fox
Topic: 1386 Message: 1390

I am still negotiating with the vendor and have some hope that the price will be more acceptable than what they recently quoted. As noted, there is a minimum quantity that has to be ordered just to get them and every dollar in price increase adds considerably to the cost outlay. On the more positive side if there is sufficient interest and a reasonable order rate, there would be less anxiety over the purchase.

73,

Alan - W6ARH

Mobokits http://mobokits.stormwarning.org/

UHFSDR Full Kit http://wb6dhw.com/For_Sale.html

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Sid Boyce
Sent: Tuesday, January 29, 2013 4:08 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: Full kits

Hi Dean,
Alan cannot sink money into stock that won't shift easily so he needs to ensure there are enough orders to justify the outlay to provide kits at a reasonable price.

He is only a volunteer who has graciously taken on the project after Art could no longer devote time or resources to it. If he hadn't it would have folded a long time ago.
73 ... Sid.

On 29/01/13 22:57, kb7anl wrote:

Alan
I really hope you have success. As a newbie I have been waiting to see this ordering system resolved. It has had me worried. Ordering then waiting 4 weeks is not fun. My goal was to have this part of my backpacking trip this summer. So should look at other all band HF kits, Until you get this resolved? Sorry to see this one falling apart. Thanks
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Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1391. Re: [UHFSDR] Re: Full kits

Yahoo group: UHFSDR
Date: 2013-01-30 03:07:00 UTC
From: Dave
Topic: 1386 Message: 1391

I just went to silabs.com and put an "A" grade, LVPECL, 19.982
default freq, in their cart. The cart does not automatically come up in
Chrome. Had to redo it in IE. But you can go to the cart at
<http://www.supplier-direct.com/silabs/Cart.aspx> after you put it in in
Chrome
Price listed was qty 1 = $98.80, qty 25 = $71.14 each.

Dave - WB6DHW
<http://wb6dhw.com>

On 1/29/2013 5:39 PM, The Silver Fox wrote:
>
> I am still negotiating with the vendor and have some hope an at the
> price will be more acceptable than what they recently quoted. As
> noted, there is a minimum quantity that has to be ordered just to get
> them and every dollar in price increase adds considerably to the cost
> outlay. On the more positive side if there is sufficient interest and
> a reasonable order rate, there would be less anxiety over the purchase.
>
> 73,
>
> Alan - W6ARH
>
> Mobokits http://mobokits.stormwarning.org/
>
> UHFSDR Full Kit http://wb6dhw.com/For_Sale.html
>
> *From:*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] *On
> Behalf Of *Sid Boyce
> *Sent:* Tuesday, January 29, 2013 4:08 PM
> *To:* UHFSDR@yahoogroups.com
> *Subject:* Re: [UHFSDR] Re: Full kits
>
> Hi Dean,
> Alan cannot sink money into stock that won't shift easily so he needs
> to ensure there are enough orders to justify the outlay to provide
> kits at a reasonable price.
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> He is only a volunteer who has graciously taken on the project after
> Art could no longer devote time or resources to it. If he hadn't it
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> On 29/01/13 22:57, kb7anl wrote:
>

> Alan
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> see this ordering system resolved. It has had me worried. Ordering
> then waiting 4 weeks is not fun. My goal was to have this part of
> my backpacking trip this summer. So should look at other all band
> HF kits, Until you get this resolved? Sorry to see this one
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> KB7ANL
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> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
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> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
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> Senior Staff Specialist, Cricket Coach
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>
> _
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>
>

1392. Re: [UHFSDR] Re: Full kits

Yahoo group: UHFSDR
Date: 2013-01-30 03:10:27 UTC
From: Dave
Topic: 1386 Message: 1392

The part # I used is 570AAA000514DG

Dave - WB6DHW
<http://wb6dhw.com>

On 1/29/2013 7:07 PM, Dave wrote:
>
> I just went to silabs.com and put an "A" grade, LVPECL, 19.982
> default freq, in their cart. The cart does not automatically come up
> in Chrome. Had to redo it in IE. But you can go to the cart at
> <http://www.supplier-direct.com/silabs/Cart.aspx> after you put it in
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> Dave - WB6DHW
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> On 1/29/2013 5:39 PM, The Silver Fox wrote:
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>> price will be more acceptable than what they recently quoted. As
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>> them and every dollar in price increase adds considerably to the cost
>> outlay. On the more positive side if there is sufficient interest
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>> purchase.
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>> 73,
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>> Alan - W6ARH
>>
>> Mobokits http://mobokits.stormwarning.org/
>>
>> UHFSDR Full Kit http://wb6dhw.com/For_Sale.html
>>
>> *From:*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] *On
>> Behalf Of *Sid Boyce
>> *Sent:* Tuesday, January 29, 2013 4:08 PM
>> *To:* UHFSDR@yahoogroups.com
>> *Subject:* Re: [UHFSDR] Re: Full kits
>>
>> Hi Dean,
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>> kits at a reasonable price.

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>> He is only a volunteer who has graciously taken on the project after
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>
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>

1393. RE: [UHFSDR] Re: Full kits

Yahoo group: UHFSDR
Date: 2013-01-30 04:16:06 UTC
From: MIKE DURKIN
Topic: 1386 Message: 1393

qty 25 = $71.14 each is $1778.50

anyone have 2K to spare for a poor ole'ham like me?

lol ... couldnt resist

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Tue, 29 Jan 2013 19:07:00 -0800
Subject: Re: [UHFSDR] Re: Full kits

I just went to silabs.com and put an
"A" grade, LVPECL, 19.982 default freq, in their cart. The cart
does not automatically come up in Chrome. Had to redo it in
IE. But you can go to the cart at
<http://www.supplier-direct.com/silabs/Cart.aspx> after you
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<http://wb6dhw.com>

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Alan - W6ARH

Mobokits http://mobokits.stormwarning.org/
UHFSDR Full
Kit http://wb6dhw.com/For_Sale.html

From: UHFSDR@yahoogroups.com
[mailto:UHFSDR@yahoogroups.com] On Behalf Of Sid
Boyce

Sent: Tuesday, January 29, 2013 4:08 PM

To: UHFSDR@yahoogroups.com

Subject: Re: [UHFSDR] Re: Full kits

Hi Dean,

Alan cannot sink money into stock that won't shift easily so he needs to ensure there are enough orders to justify the outlay to provide kits at a reasonable price.

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On 29/01/13 22:57, kb7anl wrote:

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support.

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> Alan - W6ARH

>

>

>

> Mobokits

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> UHFSDR Full Kit

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>

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1394. RE: [UHFSDR] Re: Full kits

Yahoo group: UHFSDR
Date: 2013-01-30 04:52:10 UTC
From: The Silver Fox
Topic: 1386 Message: 1394

Thanks for the information. The last time I wanted to buy some SI told me that they would not sell them to me directly even though they did the previous purchase. The number you found is interesting since it is $11 cheaper than what I've been quoted although I'd expect some markup by the middlepeople. It will be interesting to hear what the BFO will be.

73,

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Dave
Sent: Tuesday, January 29, 2013 7:10 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: Full kits

The part # I used is 570AAA000514DG

Dave - WB6DHW
<http://wb6dhw.com> <http://wb6dhw.com>

On 1/29/2013 7:07 PM, Dave wrote:

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<http://www.supplier-direct.com/silabs/Cart.aspx>
<http://www.supplier-direct.com/silabs/Cart.aspx> after you put it in in Chrome
Price listed was qty 1 = $98.80, qty 25 = $71.14 each.

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Mobokits http://mobokits.stormwarning.org/

UHFSDR Full Kit http://wb6dhw.com/For_Sale.html

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Sid Boyce
Sent: Tuesday, January 29, 2013 4:08 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: Full kits

Hi Dean,
Alan cannot sink money into stock that won't shift easily so he needs to ensure there are enough orders to justify the outlay to provide kits at a reasonable price.

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Dean
KB7ANL

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Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1395. RE: [UHFSDR] Re: Full kits

Yahoo group: UHFSDR
Date: 2013-01-30 05:00:57 UTC
From: Schumacher, Paul
Topic: 1386 Message: 1395

what is your address so I can send it?

Paul, K0ZYV

_____
From: UHFSDR@yahoogroups.com [UHFSDR@yahoogroups.com] on behalf of MIKE DURKIN [Patriot121@...]
Sent: 29 January 2013 22:16
To: UHFSDR UHFSDR
Subject: RE: [UHFSDR] Re: Full kits

qty 25 = $71.14 each is $1778.50

anyone have 2K to spare for a poor ole'ham like me?

lol ... couldnt resist

_____
To: UHFSDR@yahoogroups.com
From: dave@...
Date: Tue, 29 Jan 2013 19:07:00 -0800
Subject: Re: [UHFSDR] Re: Full kits

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On 1/29/2013 5:39 PM, The Silver Fox wrote:

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Mobokits http://mobokits.stormwarning.org/

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From: UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>
[mailto:UHFSDR@yahoogroups.com] On Behalf Of Sid Boyce
Sent: Tuesday, January 29, 2013 4:08 PM
To: UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>
Subject: Re: [UHFSDR] Re: Full kits

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On 29/01/13 22:57, kb7anl wrote:

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Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support

Senior Staff Specialist, Cricket Coach

Microsoft Windows Free Zone - Linux used for all Computing Tasks

1396. Re: Full kits

Yahoo group: UHFSDR
Date: 2013-01-30 08:40:01 UTC
From: Stephen Farthing
Topic: 1386 Message: 1396

Hi Alan,

You could try offering the kit without the Si570 as an option. I can easily source them in the UK, probably not for the prices you could get them for but it is an option for those of us who have another source of supply.

73s Steve G0XAR

1397. Re: [UHFSDR] Re: Full kits

Yahoo group: UHFSDR
Date: 2013-01-30 12:11:50 UTC
From: Sid Boyce
Topic: 1386 Message: 1397

I haven't come across a source here in the UK that will sell in quantities of less than 1000 and my brother encountered the same problem in Florida when he too was referred to those local representative companies by SiLabs.

I can't see how spending more in 2 transactions to get the same UHFSDR kit works out cheaper than spending less in one.

I keep thinking I'm missing something in the logic that would conclude the 2 transaction method as the cheaper way.

Even on the supply side if 30 kits are ordered and only 15 with si570's it wouldn't make sense to do a kit anyway.

Alan, may be the way to tackle it is to supply kits only with si570.
73 ... Sid.

On 30/01/13 08:40, Stephen Farthing wrote:
>
> Hi Alan,
>
>
> You could try offering the kit without the Si570 as an option. I can
> easily source them in the UK, probably not for the prices you could
> get them for but it is an option for those of us who have another
> source of supply.
>
> 73s Steve G0XAR
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1398. Re: Full kits

Yahoo group: UHFSDR
Date: 2013-01-30 12:36:17 UTC
From: rainerfeldkamp
Topic: 1386 Message: 1398

--- In UHFSDR@yahoogroups.com, Sid Boyce wrote:
>
> I haven't come across a source here in the UK that will sell in
> quantities of less than 1000 and my brother encountered the same problem
> in Florida when he too was referred to those local representative
> companies by SiLabs.
>
> I can't see how spending more in 2 transactions to get the same UHFSDR
> kit works out cheaper than spending less in one.
>
> I keep thinking I'm missing something in the logic that would conclude
> the 2 transaction method as the cheaper way.
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> Even on the supply side if 30 kits are ordered and only 15 with si570's
> it wouldn't make sense to do a kit anyway.
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> Alan, may be the way to tackle it is to supply kits only with si570.
> 73 ... Sid.
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> On 30/01/13 08:40, Stephen Farthing wrote:
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> > Hi Alan,
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> > easily source them in the UK, probably not for the prices you could
> > get them for but it is an option for those of us who have another
> > source of supply.
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> > 73s Steve G0XAR
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>
> --
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> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
> Senior Staff Specialist, Cricket Coach
> Microsoft Windows Free Zone - Linux used for all Computing Tasks
>

1399. Re: Full kits

Yahoo group: UHFSDR
Date: 2013-01-30 12:47:15 UTC
From: rainerfeldkamp
Topic: 1386 Message: 1399

Hi Sid,

In the UK, you should have no problem to obtain the Si570 since
SDR-KITS.net sells them in single quantities at reasonable prices.

In Germany, there is BOX73, but only up to the B-grade.

73, Rainer

--- In UHFSDR@yahoogroups.com, Sid Boyce wrote:
>
> I haven't come across a source here in the UK that will sell in
> quantities of less than 1000 and my brother encountered the same
problem
> in Florida when he too was referred to those local representative
> companies by SiLabs.
>
> I can't see how spending more in 2 transactions to get the same UHFSDR
> kit works out cheaper than spending less in one.
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> I keep thinking I'm missing something in the logic that would conclude
> the 2 transaction method as the cheaper way.
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> Even on the supply side if 30 kits are ordered and only 15 with
si570's
> it wouldn't make sense to do a kit anyway.
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> Alan, may be the way to tackle it is to supply kits only with si570.
> 73 ... Sid.
>
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> On 30/01/13 08:40, Stephen Farthing wrote:
> >
> > Hi Alan,
> >
> >
> > You could try offering the kit without the Si570 as an option. I can
> > easily source them in the UK, probably not for the prices you could
> > get them for but it is an option for those of us who have another
> > source of supply.
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> > 73s Steve G0XAR
> >
>
>
> --

> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
> Senior Staff Specialist, Cricket Coach
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>

1400. Re: [UHFSDR] Re: Full kits

Yahoo group: UHFSDR
Date: 2013-01-30 13:04:03 UTC
From: Sid Boyce
Topic: 1386 Message: 1400

OK, works out at around $74.00.
qty 25 = $71.14 each still makes buying a full kit worthwhile.
73 ... Sid.

On 30/01/13 12:47, rainerfeldkamp wrote:
>
> Hi Sid,
>
> In the UK, you should have no problem to obtain the Si570 since
> SDR-KITS.net sells them in single quantities at reasonable prices.
>
> In Germany, there is BOX73, but only up to the B-grade.
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> 73, Rainer
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Sid
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> > I haven't come across a source here in the UK that will sell in
> > quantities of less than 1000 and my brother encountered the same
> problem
> > in Florida when he too was referred to those local representative
> > companies by SiLabs.
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> > I can't see how spending more in 2 transactions to get the same UHFSDR
> > kit works out cheaper than spending less in one.
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> > I keep thinking I'm missing something in the logic that would conclude
> > the 2 transaction method as the cheaper way.
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> > Even on the supply side if 30 kits are ordered and only 15 with
> si570's
> > it wouldn't make sense to do a kit anyway.
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> > Alan, may be the way to tackle it is to supply kits only with si570.
> > 73 ... Sid.
> >
> >
> > On 30/01/13 08:40, Stephen Farthing wrote:
> > >
> > > Hi Alan,
> > >
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Senior Staff Specialist, Cricket Coach
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1401. Re: [UHFSDR] Re: Full kits

Yahoo group: UHFSDR
Date: 2013-01-30 13:13:18 UTC
From: Stephen Farthing
Topic: 1386 Message: 1401

Sid,

Just because you haven't found one it doesn't mean that one doesn't exist. Take a look at http://www.sdr-kits.net/Webshop/products.php?53. Jan, G0BBL, who owns SDR_Kits has been supplying these in single quantities to the ham radio community for years. A simple Google search on "Si570 SDR" would have told you this. Also they are available through Digikey.

Much as I would hesitate to give an ex IBM mainframe engineer a lesson in logic I'll give it a go:-

If the only criteria preventing Alan continuing the UHFSDR kits is availability of Si570s then if people source their own Si570s the problem is solved. Also this option allows people to choose the grade of Si570 they want, which may not be the one provided in the kit.

At the end of the day it is Alan's business and his choice, not yours or mine. I am just trying to help keep these great kits in production.

73s Steve G0XAR CISP MBCS

1402. RE: [UHFSDR] Re: Full kits

Yahoo group: UHFSDR
Date: 2013-01-30 17:36:32 UTC
From: MIKE DURKIN
Topic: 1386 Message: 1402

Im good in Qrz ....

KC7NOA ..... BTY, dont let that dog intimadate you .... he's a pup.

To: UHFSDR@yahoogroups.com
From: pschumacher@...
Date: Wed, 30 Jan 2013 05:00:57 +0000
Subject: RE: [UHFSDR] Re: Full kits

what is your address so I can send it?

Paul, K0ZYV

From: UHFSDR@yahoogroups.com [UHFSDR@yahoogroups.com] on behalf of MIKE DURKIN [Patriot121@...]

Sent: 29 January 2013 22:16

To: UHFSDR UHFSDR

Subject: RE: [UHFSDR] Re: Full kits

qty 25 = $71.14 each is $1778.50

anyone have 2K to spare for a poor ole'ham like me?

lol ... couldnt resist

To: UHFSDR@yahoogroups.com

From: dave@wb6dhw.com

Date: Tue, 29 Jan 2013 19:07:00 -0800

Subject: Re: [UHFSDR] Re: Full kits

I just went to silabs.com and put an "A" grade, LVPECL, 19.982 default freq, in their cart. The cart does not automatically come up in Chrome. Had to redo it in IE. But you can go to the cart at http://www.supplier-direct.com/silabs/Cart.aspx>http://www.supplier-direct.com/silabs/Cart.aspx> after you put it in in Chrome

Price listed was qty 1 = $98.80, qty 25 = $71.14 each.

Dave - WB6DHW

http://wb6dhw.com>http://wb6dhw.com>

On 1/29/2013 5:39 PM, The Silver Fox wrote:

I am still negotiating with the vendor and have some hope an at the price will be more acceptable than what they recently quoted. As noted, there is a minimum quantity that has to be ordered just to get them and every dollar in price increase adds considerably to the cost outlay. On the more positive side if there is sufficient interest and a reasonable order rate, there would be less anxiety over the purchase.

73,

Alan - W6ARH

Mobokits http://mobokits.stormwarning.org/

UHFSDR Full Kit http://wb6dhw.com/For_Sale.html

From: UHFSDR@yahoogroups.comUHFSDR@yahoogroups.com> [mailto:UHFSDR@yahoogroups.com] On Behalf Of Sid Boyce

Sent: Tuesday, January 29, 2013 4:08 PM

To: UHFSDR@yahoogroups.comUHFSDR@yahoogroups.com>

Subject: Re: [UHFSDR] Re: Full kits

Hi Dean,

Alan cannot sink money into stock that won't shift easily so he needs to ensure there are enough orders to justify the outlay to provide kits at a reasonable price.

He is only a volunteer who has graciously taken on the project after Art could no longer devote time or resources to it. If he hadn't it would have folded a long time ago.

73 ... Sid.

On 29/01/13 22:57, kb7anl wrote:

Alan

I really hope you have success. As a newbie I have been waiting to see this ordering system resolved. It has had me worried. Ordering then waiting 4 weeks is not fun. My goal was to have this part of my backpacking trip this summer. So should look at other all band HF kits, Until you get this resolved? Sorry to see this one falling apart. Thanks

Dean

KB7ANL

--- In UHFSDR@yahoogroups.com, "The Silver Fox" wrote:

>

> I am currently out of stock for the Si570's and I am trying to negotiate a

> better price with the vendor. The bad news is that I cannot accept further

> orders without the caveat of a price increase.

>

> Hopefully, this will be resolved this week and then there is a four week

> wait for new chips. Thank you for your support.

>

> 73,

>

> Alan - W6ARH

>

>

>

> Mobokits

> http://mobokits.stormwarning.org/

>

> UHFSDR Full Kit

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>

--

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1403. RE: [UHFSDR] Re: Full kits

Yahoo group: UHFSDR
Date: 2013-01-30 19:00:33 UTC
From: The Silver Fox
Topic: 1386 Message: 1403

Si570's come in different capabilities with price reflective of quality.
The only fair comment on price comparisons is to provide the details like
Dave did.

73,

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
MIKE DURKIN
Sent: Wednesday, January 30, 2013 9:37 AM
To: UHFSDR UHFSDR
Subject: RE: [UHFSDR] Re: Full kits

Im good in Qrz ....

KC7NOA ..... BTY, dont let that dog intimadate you .... he's a pup.

To: UHFSDR@yahoogroups.com
From: pschumacher@...
Date: Wed, 30 Jan 2013 05:00:57 +0000
Subject: RE: [UHFSDR] Re: Full kits

what is your address so I can send it?

Paul, K0ZYV

From: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
[UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>] on behalf of
MIKE DURKIN [Patriot121@... <mailto:Patriot121%40msn.com>]
Sent: 29 January 2013 22:16
To: UHFSDR UHFSDR
Subject: RE: [UHFSDR] Re: Full kits

qty 25 = $71.14 each is $1778.50

anyone have 2K to spare for a poor ole'ham like me?

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To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
From: dave@... <mailto:dave%40wb6dhw.com>
Date: Tue, 29 Jan 2013 19:07:00 -0800
Subject: Re: [UHFSDR] Re: Full kits

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Price listed was qty 1 = $98.80, qty 25 = $71.14 each.

Dave - WB6DHW
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On 1/29/2013 5:39 PM, The Silver Fox wrote:

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Alan - W6ARH

Mobokits http://mobokits.stormwarning.org/

UHFSDR Full Kit http://wb6dhw.com/For_Sale.html

From: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com> UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com> > [mailto:UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>] On Behalf Of Sid Boyce
Sent: Tuesday, January 29, 2013 4:08 PM
To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com> UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com> >
Subject: Re: [UHFSDR] Re: Full kits

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He is only a volunteer who has graciously taken on the project after Art could no longer devote time or resources to it. If he hadn't it would have folded a long time ago.
73 ... Sid.

On 29/01/13 22:57, kb7anl wrote:

Alan
I really hope you have success. As a newbie I have been waiting to see this ordering system resolved. It has had me worried. Ordering then waiting 4 weeks is not fun. My goal was to have this part of my backpacking trip this summer. So should look at other all band HF kits, Until you get this resolved? Sorry to see this one falling apart. Thanks

Dean
KB7ANL

--- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com> , "The Silver Fox" wrote:
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> I am currently out of stock for the Si570's and I am trying to negotiate a
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> orders without the caveat of a price increase.
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> Hopefully, this will be resolved this week and then there is a four week
> wait for new chips. Thank you for your support.
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> 73,
>
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>
>
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> Mobokits
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--

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1404. Re: Full kits

Yahoo group: UHFSDR
Date: 2013-01-30 19:02:33 UTC
From: kb7anl
Topic: 1386 Message: 1404

Hi To all:
I hope I didn't step on toes and sound insensitive. How well I know about cash flow issue with this economy. I don't want to see this project disappear in fact my reason for my backpacking trip is to promote these style kits. And this sounds like the correct one to Promote.
My level of taking on this project it to learn and grow in Ham Radio.
I don't like that Alan is saying he may drop the whole thing. As a group how do we rally around and keep this going.
Do we create a pool of funds to keep this going?
How is this type of project protected?

Guys I'm really going to open up and explain why it has been hard for me (I believe others) to pull the trigger and buy.... Well other than the holiday mass exodus of cash flow.
When I started looking at this kit I looked for the understanding how to build this from my lack of electrical understanding.
This seems to be for Electrical engineers or well educated in electronics to build. The instructions don't take a guy like me who doesn't have the shake (yet) a step by step guide to build and test. So this makes since. The area of interest will not self propitiate it will diminish instead.
Now Gently there have been two websites that show you a pictural how to build. But no understanding how to test as you build. With out those steps it is a pain to find the mistakes at the end of the project. Instead of finding the bad solder joint or bad part early on.

This is all from my prospective and maybe you don't want us newbies involved.
So of course the interest will diminish.

Guy's I like the sound of this project. I think you have a great opportunity to revitalize interest. but you got to open it up to some less then engineers so they can infuse it and keep it going!!!! then this may create a further direction.

I want in and If this really does work and is worth the end result then lets keep it going.

Thanks
Dean Smart
KB7ANL
Twin Falls, Idaho
All this because I'm looking for a backpack home made unit to take on a 7 day wilderness hike before I loose my health.
And "not" buy the commercial rigs.

--- In UHFSDR@yahoogroups.com, Sid Boyce wrote:
>
> Hi Dean,
> Alan cannot sink money into stock that won't shift easily so he needs to
> ensure there are enough orders to justify the outlay to provide kits at

> a reasonable price.
>
> He is only a volunteer who has graciously taken on the project after Art
> could no longer devote time or resources to it. If he hadn't it would
> have folded a long time ago.
> 73 ... Sid.
>
> On 29/01/13 22:57, kb7anl wrote:
> >
> > Alan
> > I really hope you have success. As a newbie I have been waiting to see
> > this ordering system resolved. It has had me worried. Ordering then
> > waiting 4 weeks is not fun. My goal was to have this part of my
> > backpacking trip this summer. So should look at other all band HF
> > kits, Until you get this resolved? Sorry to see this one falling
> > apart. Thanks
> > Dean
> > KB7ANL
> >
> > --- In UHFSDR@yahoogroups.com , "The
> > Silver Fox" wrote:
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> > > I am currently out of stock for the Si570's and I am trying to
> > negotiate a
> > > better price with the vendor. The bad news is that I cannot accept
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> > > 73,
> > >
> > > Alan - W6ARH
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> --
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1405. Re: [UHFSDR] Re: Full kits

Yahoo group: UHFSDR
Date: 2013-01-30 20:15:44 UTC
From: Sid Boyce
Topic: 1386 Message: 1405

I hadn't been to Jan's site in quite a while and back then he was only stocking the si570C. It was back when the UHFSDR first appeared, every one of the si570A samples I got from SiLabs failed as did one donated by G1CET and it was almost a year before I got a working one from George Boudreau.

I am not disputing that the choices are Alan's but from the start he shipped full kits including the si570A while WB6DHW later supplied partial kits with the hard to find devices.

I was only pointing out that the more full kits he supplied, it would be easier for him to stock up on si570's.

I have seen projects on the brink of failure and some failed for lack of sufficient interest or support - the SDR-Widget being a prime one.

BTW, having said that, Alan can speak for himself.
73 ... Sid.

On 30/01/13 13:13, Stephen Farthing wrote:
>
> Sid,
>
>
> Just because you haven't found one it doesn't mean that one doesn't
> exist. Take a look at http://www.sdr-kits.net/Webshop/products.php?53.
> Jan, G0BBL, who owns SDR_Kits has been supplying these in single
> quantities to the ham radio community for years. A simple Google
> search on "Si570 SDR" would have told you this. Also they are
> available through Digikey.
>
> Much as I would hesitate to give an ex IBM mainframe engineer a lesson
> in logic I'll give it a go:-
>
> If the only criteria preventing Alan continuing the UHFSDR kits is
> availability of Si570s then if people source their own Si570s the
> problem is solved. Also this option allows people to choose the grade
> of Si570 they want, which may not be the one provided in the kit.
>
> At the end of the day it is Alan's business and his choice, not yours
> or mine. I am just trying to help keep these great kits in production.
>
> 73s Steve G0XAR CISP MBCS
>
>
>

>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
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1406. Re: [UHFSDR] Re: Full kits

Yahoo group: UHFSDR
Date: 2013-01-30 20:20:57 UTC
From: Dave
Topic: 1386 Message: 1406

The only grade "A" he has is a Si570DBA. That has a CML output.
That should work on the UHFSDR. May require a change in the resisters
in the circuit between the Si570 and the flip flops. If someone else
has used a CML output, let us know. SDR-Kits also has some 945 MHz
LVDS. LVDS will work with different resisters(the values are indicated
on the schematic) and the upper transmit/receive frequency limit would
be limited to 945/2 = 472.5 MHz. That would cover 70cm. Has anyone used
the "B" and had it work on 70 cm ?

Dave - WB6DHW
<http://wb6dhw.com>

On 1/30/2013 5:13 AM, Stephen Farthing wrote:
>
> Sid,
>
>
> Just because you haven't found one it doesn't mean that one doesn't
> exist. Take a look at http://www.sdr-kits.net/Webshop/products.php?53.
> Jan, G0BBL, who owns SDR_Kits has been supplying these in single
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> 73s Steve G0XAR CISP MBCS
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>

1407. Re: [UHFSDR] Re: Full kits

Yahoo group: UHFSDR
Date: 2013-01-30 20:33:18 UTC
From: Dave
Topic: 1386 Message: 1407

Dean:
There is an assembly manual in my folder in the files area. It is at
<http://f1.grp.yahoofs.com/v1/wHsJUZQTTrY2x9GJ6grZ7omVvEs1CUy_osrJpBxb_qP8b38xD6W19Fb3kTMN3nu2E-aBlQEz6b9qdI7acTlTQw/UHFSDR%20Documentation%20/UHF_SDR%20Assembly%20Manual-with%20SV1OBT%20suggestions.doc>

Dave - WB6DHW
<http://wb6dhw.com>
On 1/30/2013 11:02 AM, kb7anl wrote:
>
> Hi To all:
> I hope I didn't step on toes and sound insensitive. How well I know
> about cash flow issue with this economy. I don't want to see this
> project disappear in fact my reason for my backpacking trip is to
> promote these style kits. And this sounds like the correct one to Promote.
> My level of taking on this project it to learn and grow in Ham Radio.
> I don't like that Alan is saying he may drop the whole thing. As a
> group how do we rally around and keep this going.
> Do we create a pool of funds to keep this going?
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> Guys I'm really going to open up and explain why it has been hard for
> me (I believe others) to pull the trigger and buy.... Well other than
> the holiday mass exodus of cash flow.
> When I started looking at this kit I looked for the understanding how
> to build this from my lack of electrical understanding.
> This seems to be for Electrical engineers or well educated in
> electronics to build. The instructions don't take a guy like me who
> doesn't have the shake (yet) a step by step guide to build and test.
> So this makes since. The area of interest will not self propitiate it
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> Now Gently there have been two websites that show you a pictural how
> to build. But no understanding how to test as you build. With out
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> KB7ANL
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> > > >
> > > > Alan - W6ARH
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> > > >
> > > >
> > > > Mobokits
> > > > http://mobokits.stormwarning.org/
> > > >
> > > > UHFSDR Full Kit
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> > > >
> > >
> > >
> >
> >
> > --
> > Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
> > Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
> > Senior Staff Specialist, Cricket Coach
> > Microsoft Windows Free Zone - Linux used for all Computing Tasks
> >
>
> _ <!-- #ygrp-mkp { border: 1px solid #d8d8d8; font-family: Arial;
> margin: 10px 0; padding: 0 10px; } #ygrp-mkp hr { border: 1px solid
> #d8d8d8; } #ygrp-mkp #hd { color: #628c2a; font-size: 85%;
> font-weight: 700; line-height: 122%; margin: 10px 0; } #ygrp-mkp #ads
> { margin-bottom: 10px; } #ygrp-mkp .ad { padding: 0 0; } #ygrp-mkp .ad
> p { margin: 0; } #ygrp-mkp .ad a { color: #0000ff; text-decoration:
> none; } #ygrp-sponsor #ygrp-lc { font-family: Arial; } #ygrp-sponsor
> #ygrp-lc #hd { margin: 10px 0px; font-weight: 700; font-size: 78%;
> line-height: 122%; } #ygrp-sponsor #ygrp-lc .ad { margin-bottom: 10px;
> padding: 0 0; } #actions { font-family: Verdana; font-size: 11px;
> padding: 10px 0; } #activity { background-color: #e0ecee; float: left;
> font-family: Verdana; font-size: 10px; padding: 10px; } #activity span
> { font-weight: 700; } #activity span:first-child { text-transform:
> uppercase; } #activity span a { color: #5085b6; text-decoration: none;
> } #activity span span { color: #ff7900; } #activity span .underline {
> text-decoration: underline; } .attach { clear: both; display: table;
> font-family: Arial; font-size: 12px; padding: 10px 0; width: 400px; }
> .attach div a { text-decoration: none; } .attach img { border: none;
> padding-right: 5px; } .attach label { display: block; margin-bottom:
> 5px; } .attach label a { text-decoration: none; } blockquote { margin:
> 0 0 0 4px; } .bold { font-family: Arial; font-size: 13px; font-weight:
> 700; } .bold a { text-decoration: none; } dd.last p a { font-family:
> Verdana; font-weight: 700; } dd.last p span { margin-right: 10px;
> font-family: Verdana; font-weight: 700; } dd.last p span.yshortcuts {

```
> margin-right: 0; } div.attach-table div div a { text-decoration: none;
> } div.attach-table { width: 400px; } div.file-title a, div.file-title
> a:active, div.file-title a:hover, div.file-title a:visited {
> text-decoration: none; } div.photo-title a, div.photo-title a:active,
> div.photo-title a:hover, div.photo-title a:visited { text-decoration:
> none; } div#ygrp-mlmsg #ygrp-msg p a span.yshortcuts { font-family:
> Verdana; font-size: 10px; font-weight: normal; } .green { color:
> #628c2a; } .MsoNormal { margin: 0 0 0 0; } o { font-size: 0; } #photos
> div { float: left; width: 72px; } #photos div div { border: 1px solid
> #666666; height: 62px; overflow: hidden; width: 62px; } #photos div
> label { color: #666666; font-size: 10px; overflow: hidden; text-align:
> center; white-space: nowrap; width: 64px; } #reco-category {
> font-size: 77%; } #reco-desc { font-size: 77%; } .replbq { margin:
> 4px; } #ygrp-actbar div a:first-child { /* border-right: 0px solid
> #000;*/ margin-right: 2px; padding-right: 5px; } #ygrp-mlmsg {
> font-size: 13px; font-family: Arial, helvetica,clean, sans-serif;
> *font-size: small; *font: x-small; } #ygrp-mlmsg table { font-size:
> inherit; font: 100%; } #ygrp-mlmsg select, input, textarea { font: 99%
> Arial, Helvetica, clean, sans-serif; } #ygrp-mlmsg pre, code {
> font:115% monospace; *font-size:100%; } #ygrp-mlmsg * { line-height:
> 1.22em; } #ygrp-mlmsg #logo { padding-bottom: 10px; } #ygrp-msg p a {
> font-family: Verdana; } #ygrp-msg p#attach-count span { color:
> #1E66AE; font-weight: 700; } #ygrp-reco #reco-head { color: #ff7900;
> font-weight: 700; } #ygrp-reco { margin-bottom: 20px; padding: 0px; }
> #ygrp-sponsor #ov li a { font-size: 130%; text-decoration: none; }
> #ygrp-sponsor #ov li { font-size: 77%; list-style-type: square;
> padding: 6px 0; } #ygrp-sponsor #ov ul { margin: 0; padding: 0 0 0
> 8px; } #ygrp-text { font-family: Georgia; } #ygrp-text p { margin: 0 0
> 1em 0; } #ygrp-text tt { font-size: 120%; } #ygrp-vital ul
> li:last-child { border-right: none !important; } -->
>
```

1408. Re: [UHFSDR] Re: Full kits

Yahoo group: UHFSDR
Date: 2013-01-30 20:54:28 UTC
From: Sid Boyce
Topic: 1386 Message: 1408

I have tried to support these projects because they serve a good purpose
and open up interesting areas for experimentation.
Over a period of almost 9 years, my SDR gear, not because I definitely
needed them but because they are fun and a challenge as well as a means
of supporting the projects and getting others interested:-
SR v6.3 and Mobo v3.6 + K5BCQ si570 Controller (x2)
UBW (x3)
K5BCQ SDR2GO, 20W PA and BPF kit
SR63ng + Mobo v4.3.4 + SDR-Widget
UHFSDR (x2) + SDR-Widget (x2)
Ensemble II - donated to a guy Stateside for Softrock software development

Ensemble RXTX (x4) - 1 for a guy in Kent and the 1 to the guy developing
software for the HiQSDR, USRP, Softrocks and other SDR gear. The guy in
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his club meeting last night to get them interested in adding Softrock to
their club projects.

SR63ng + Mobo v4.3.4
SDR-Widget
HiQSDR + Preselector/10W PA
Funkamateur 1W PA's (x2)
HPSDR Hermes about to be ordered.
73 ... Sid.

On 30/01/13 19:02, kb7anl wrote:
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> Hi To all:
> I hope I didn't step on toes and sound insensitive. How well I know
> about cash flow issue with this economy. I don't want to see this
> project disappear in fact my reason for my backpacking trip is to
> promote these style kits. And this sounds like the correct one to Promote.
> My level of taking on this project it to learn and grow in Ham Radio.
> I don't like that Alan is saying he may drop the whole thing. As a
> group how do we rally around and keep this going.
> Do we create a pool of funds to keep this going?
> How is this type of project protected?
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> Guys I'm really going to open up and explain why it has been hard for
> me (I believe others) to pull the trigger and buy.... Well other than
> the holiday mass exodus of cash flow.
> When I started looking at this kit I looked for the understanding how
> to build this from my lack of electrical understanding.
> This seems to be for Electrical engineers or well educated in
> electronics to build. The instructions don't take a guy like me who
> doesn't have the shake (yet) a step by step guide to build and test.

> So this makes since. The area of interest will not self propitiate it
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> Now Gently there have been two websites that show you a pictural how
> to build. But no understanding how to test as you build. With out
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--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1409. RE: [UHFSDR] Re: Full kits

Yahoo group: UHFSDR
Date: 2013-01-30 23:04:54 UTC
From: MIKE DURKIN
Topic: 1386 Message: 1409

Kent....? Wa?

If so, who?

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: sboyce@...
Date: Wed, 30 Jan 2013 20:54:28 +0000
Subject: Re: [UHFSDR] Re: Full kits

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because they serve a good purpose and open up interesting areas
for experimentation.

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KB7ANL

Twin Falls, Idaho

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And "not" buy the commercial rigs.

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> > >

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Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
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Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1410. Good News

Yahoo group: UHFSDR
Date: 2013-01-30 23:18:31 UTC
From: The Silver Fox
Topic: 1410 Message: 1410

I have cajoled the vendor into giving me the previous price for the Si570's so there is no increase for the chips. However, shipping costs have steadily risen so I will be asking a few dollars more for the kits.

There is no reported delay when I purchase the chips so all is well. See my signature for the current price. As noted I am investing in 25 more chips so please keep the orders coming and thanks to all for the moral support and good words regarding the product.

73,

Alan - W6ARH

Mobokits <http://mobokits.stormwarning.org/>
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UHFSDR Full Kit <http://wb6dhw.com/For_Sale.html>
http://wb6dhw.com/For_Sale.html $206 USD domestic US and $210 for DX.
Paypal money to my email address.

1411. Re: Good News

Yahoo group: UHFSDR
Date: 2013-01-30 23:33:56 UTC
From: kb7anl
Topic: 1410 Message: 1411

Alan Hurray! thanks for sticking in there.

How far from out are you for those 10 kits?
Or is this still an issue?
Then how far out from delivery?

Thanks
Dean Smart
KB7ANL

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>

1412. RE: [UHFSDR] Re: Good News

Yahoo group: UHFSDR
Date: 2013-01-31 00:25:55 UTC
From: The Silver Fox
Topic: 1410 Message: 1412

Right now the estimate is 6 weeks. To date, I have received no orders so the offer has expired. Most have opted to await developments and notification of the re-availability.

73,

Alan - W6ARH

Mobokits http://mobokits.stormwarning.org/

UHFSDR Full Kit http://wb6dhw.com/For_Sale.html $206 USD US and $210 DX Paypal money to my email adddress

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of kb7anl
Sent: Wednesday, January 30, 2013 3:34 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Re: Good News

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>

1413. RE: [UHFSDR] Re: Good News

Yahoo group: UHFSDR
Date: 2013-01-31 01:29:22 UTC
From: Charles Robideaux
Topic: 1410 Message: 1413

And here I was just preparing to place my order!

Is PayPal OK?

73

Chuck w8dux

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
The Silver Fox
Sent: Wednesday, January 30, 2013 7:26 PM
To: UHFSDR@yahoogroups.com
Subject: RE: [UHFSDR] Re: Good News

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1414. RE: [UHFSDR] Re: Good News

Yahoo group: UHFSDR
Date: 2013-01-31 02:57:35 UTC
From: The Silver Fox
Topic: 1410 Message: 1414

Yes. Paypal the payment to my email address.

73,

Alan - W6ARH

Mobokits http://mobokits.stormwarning.org/

UHFSDR Full Kit http://wb6dhw.com/For_Sale.html $206 USD US and $210 DX
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From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
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To: UHFSDR@yahoogroups.com
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Alan - W6ARH

Mobokits http://mobokits.stormwarning.org/

UHFSDR Full Kit http://wb6dhw.com/For_Sale.html $206 USD US and $210 DX
Paypal money to my email adddress

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
kb7anl
Sent: Wednesday, January 30, 2013 3:34 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Re: Good News

Alan Hurray! thanks for sticking in there.

How far from out are you for those 10 kits?
Or is this still an issue?
Then how far out from delivery?

Thanks
Dean Smart
KB7ANL

--- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com> , "The
Silver Fox" wrote:
>
> I have cajoled the vendor into giving me the previous price for the
Si570's
> so there is no increase for the chips. However, shipping costs have
> steadily risen so I will be asking a few dollars more for the kits.
>
> There is no reported delay when I purchase the chips so all is well. See
my
> signature for the current price. As noted I am investing in 25 more chips
> so please keep the orders coming and thanks to all for the moral support
and
> good words regarding the product.
>
> 73,
>
> Alan - W6ARH
>
>
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> Paypal money to my email address.
>

1415. Re: Good News? awaiting new developments and re-availability? bad designs?

Yahoo group: UHFSDR
Date: 2013-01-31 04:24:46 UTC
From: kb7anl
Topic: 1410 Message: 1415

Alan
What do you mean

Most have opted to await developments and notification of the re-availability.

I guess I'm not understanding.
Thanks
Dean
KB7ANL

--- In UHFSDR@yahoogroups.com, "The Silver Fox" wrote:
>
> Yes. Paypal the payment to my email address.
>
> 73,
>
> Alan - W6ARH
>
>
>
> Mobokits http://mobokits.stormwarning.org/
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> UHFSDR Full Kit http://wb6dhw.com/For_Sale.html $206 USD US and $210 DX
> Paypal money to my email adddress
>
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>
> From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
> Charles Robideaux
> Sent: Wednesday, January 30, 2013 5:29 PM
> To: UHFSDR@yahoogroups.com
> Subject: RE: [UHFSDR] Re: Good News
>
>
>
>
>
> And here I was just preparing to place my order!
>
> Is PayPal OK?

>
>
>
> 73
>
>
>
> Chuck w8dux
>
>
>
>
>
> From: UHFSDR@yahoogroups.com [mailto:UHFSDR@...m] On Behalf Of
> The Silver Fox
> Sent: Wednesday, January 30, 2013 7:26 PM
> To: UHFSDR@yahoogroups.com
> Subject: RE: [UHFSDR] Re: Good News
>
>
>
>
>
> Right now the estimate is 6 weeks. To date, I have received no orders so
> the offer has expired. Most have opted to await developments and
> notification of the re-availability.
>
> 73,
>
> Alan - W6ARH
>
>
>
> Mobokits http://mobokits.stormwarning.org/
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> UHFSDR Full Kit http://wb6dhw.com/For_Sale.html $206 USD US and $210 DX
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> From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
> kb7anl
> Sent: Wednesday, January 30, 2013 3:34 PM
> To: UHFSDR@yahoogroups.com
> Subject: [UHFSDR] Re: Good News
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>
> Alan Hurray! thanks for sticking in there.
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> How far from out are you for those 10 kits?
> Or is this still an issue?
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> Thanks
> Dean Smart
> KB7ANL
>
> --- In UHFSDR@yahoogroups.com , "The
> Silver Fox" wrote:
> >
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> Si570's
> > so there is no increase for the chips. However, shipping costs have
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> > signature for the current price. As noted I am investing in 25 more chips
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> > Paypal money to my email address.
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>

1416. Re: [UHFSDR] Re: Good News? awaiting new developments and re-availability? bad designs?

Yahoo group: UHFSDR
Date: 2013-01-31 04:53:17 UTC
From: Alan Hill
Topic: 1410 Message: 1416

I offered to discount interim purchases that allows me to buy more inventory without investing my own money. This offer did not produce any buyers.

On Wed, Jan 30, 2013 at 8:24 PM, kb7anl <kb7anl@...> wrote:

> **
>
>
> Alan
> What do you mean
>
> Most have opted to await developments and notification of the
> re-availability.
>
>
> I guess I'm not understanding.
> Thanks
> Dean
> KB7ANL
>
> --- In UHFSDR@yahoogroups.com, "The Silver Fox" wrote:
> >
> > Yes. Paypal the payment to my email address.
> >
> > 73,
> >
> > Alan - W6ARH
> >
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> >
> > Mobokits http://mobokits.stormwarning.org/
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> > UHFSDR Full Kit http://wb6dhw.com/For_Sale.html $206 USD US and $210 DX
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> > Charles Robideaux
> > Sent: Wednesday, January 30, 2013 5:29 PM
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> > And here I was just preparing to place my order!
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> > Is PayPal OK?
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> >
> > 73
> >
> >
> >
> > Chuck w8dux
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> > From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf
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> > From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf
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> > Alan Hurray! thanks for sticking in there.
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> > How far from out are you for those 10 kits?
> > Or is this still an issue?
> > Then how far out from delivery?
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> > Thanks
> > Dean Smart
> > KB7ANL
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> > Silver Fox" wrote:
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> > > Alan - W6ARH

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>

1417. PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-01 12:21:41 UTC
From: bent_andersen@ymail.com
Topic: 1417 Message: 1417

HI all

I installed Powersdr 2.4.4 and it has the possibility to
divide by 4 but would like to use 2 as my UHFSDR requires.
Now the question is ... what do you use instead ???, is there a early
version of powersdr that is "made" for the UHFSDR ???

OZ1CT Bent

1418. UHF-SDR kit

Yahoo group: UHFSDR
Date: 2013-02-01 16:10:14 UTC
From: Mihai Dumitru
Topic: 1418 Message: 1418
Attachments: 1 described; binary payloads are missing from this source WARC

Hi everyone,

For the moment I have a new hobby and I'm no longer interested in radio. So, I have decided to sell my UHF-SDR kit.

The kit contains:
- all the parts (including resistors and capacitors),
- an SI570BBB000141DG (10-810MHz, LVDS, 20ppm, Start-up frequency: 56.32 MHz),
- the original WB6DHW PCB (unplanted),
- a PCB projected by me which contains an ATTINY85-20SU for USB connection development.

I think 150$ + 10$ shippment is a fair price.
If someone is interested, please mail me.

73's to all

1419. RE: [UHFSDR] PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-01 17:39:13 UTC
From: MIKE DURKIN
Topic: 1417 Message: 1419

its been awhile since iv used powersdr .... i use HDSDR when on windows ..

i seem to recall that there was a file you were saposed to replace in powersdr folder for the UHFSDR divide by 2 ....
but i just dont recall ... maybe some one else will remember ... or refer us to a link with the information your looking for ...

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: eskolin@...
Date: Fri, 1 Feb 2013 12:21:41 +0000
Subject: [UHFSDR] PowerDSR and UHFSDR ???

HI all

I installed Powersdr 2.4.4 and it has the possibility to

divide by 4 but would like to use 2 as my UHFSDR requires.

Now the question is ... what do you use instead ???, is there a early

version of powersdr that is "made" for the UHFSDR ???

OZ1CT Bent

1420. Re: The Warthog

Yahoo group: UHFSDR
Date: 2013-02-01 19:17:28 UTC
From: Hank
Topic: 1299 Message: 1420

Bob,

I have been working on my SDR2GO to UHFSDR interconnects trying to get them working and was wondering if you could share what you did.

From your photo's, it looks like on your SDR2GO board you left off U5 or maybe I just can't see it.

I have my UHFSDR working for a while now via a LPT port and a PC, and I completed my SDR2Go board but when I try to supply the SDA/SDL signals through J5 from the SDR2Go to pins 3/4 of H2 on the UHFSDR, the SDR2Go board lockes up.

I have the address on the SDR2Go set to 55hex and the startup frequency to 19,982,000 with a divisor of 2 which from what I read should be fine given my Si570 and what little I know if the UHFSDR.

I am a little confused on what I should see on the SDA/SCL lines. If I check the voltage with the two boards disconnected, on the SDA/SDL on the SDR2Go I get 3.2V but on the SDA/SCL on the UHFSDR I get 4.6v which I didn't think should be the case. I removed the pull up resistors R59/R60 per comments on the forum which I though would have removed the voltage from these pins.

The SDR2Go board starts up fine independent of the UHFSDR, but the minute I connect the SDR2Go SDA/SCL lines to the UHFSDR, with or without power the SDR2Go board lockes up. I think it has something to do with the voltages I am seeing. Maybe my ADUM1251 has gone bad, don't know.

In any case, it looks like you have done an excellent job on your Warthog. I was trying to get mine to the piglet stage, then maybe it would grow up over time.....

73,
Hank - wz3hmt

--- In UHFSDR@yahoogroups.com, rhillard@... wrote:
>
> In the Photos section, I have uploaded a few pictures of my IF Radio transceiver that uses the UHFSDR and SDR2GO boards.
>
> The transceiver acts as the IF Radio for my 33cm and 23cm transverters, and also is a transceiver for the 222 MHz and 432 MHz bands.
>
> This is a 'stand alone' radio (no computer required), using the SDR2GO board developed by members of the Austin QRP club.
>
> More pictures to follow. . . . .
>
> Bob WA6UFQ

>

1421. Re: [UHFSDR] PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-01 20:42:27 UTC
From: Dave
Topic: 1417 Message: 1421

Bent:
PowerSDR-IQ has support for divide by 2. I have used version 1.12.20
available at
<http://code.google.com/p/powersdr-iq/downloads/detail?name=PowerSDR-IQ%20v1.12.20%20Setup
.msi&can=2&q=>
There is a link to the download page in the group links. I haven't
yet tried PowerSDRv2.4.4 for homemade_Rigs yet.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/1/2013 4:21 AM, bent_andersen@... wrote:
>
> HI all
>
> I installed Powersdr 2.4.4 and it has the possibility to
> divide by 4 but would like to use 2 as my UHFSDR requires.
> Now the question is ... what do you use instead ???, is there a early
> version of powersdr that is "made" for the UHFSDR ???
>
> OZ1CT Bent
>
> _
>
>
>

1422. Re: The Warthog

Yahoo group: UHFSDR
Date: 2013-02-01 22:54:42 UTC
From: Hank
Topic: 1299 Message: 1422

Replying to my own message... I must be talking to myself. Well I tried the crazy idea of tying pin 2 of H1 back to ground and what do you know, I have control of the Si570 from my SDR2Go board and can see some of the signals on it's graphics interface.

My piglet started to oink!

73,

Hank - wz3hmt

--- In UHFSDR@yahoogroups.com, "Hank" wrote:
>
> Bob,
>
> I have been working on my SDR2GO to UHFSDR interconnects trying to get them working and was wondering if you could share what you did.
>
> From your photo's, it looks like on your SDR2GO board you left off U5 or maybe I just can't see it.
>
> I have my UHFSDR working for a while now via a LPT port and a PC, and I completed my SDR2Go board but when I try to supply the SDA/SDL signals through J5 from the SDR2Go to pins 3/4 of H2 on the UHFSDR, the SDR2Go board lockes up.
>
> I have the address on the SDR2Go set to 55hex and the startup frequency to 19,982,000 with a divisor of 2 which from what I read should be fine given my Si570 and what little I know if the UHFSDR.
>
> I am a little confused on what I should see on the SDA/SCL lines. If I check the voltage with the two boards disconnected, on the SDA/SDL on the SDR2Go I get 3.2V but on the SDA/SCL on the UHFSDR I get 4.6v which I didn't think should be the case. I removed the pull up resistors R59/R60 per comments on the forum which I though would have removed the voltage from these pins.
>
> The SDR2Go board starts up fine independent of the UHFSDR, but the minute I connect the SDR2Go SDA/SCL lines to the UHFSDR, with or without power the SDR2Go board lockes up. I think it has something to do with the voltages I am seeing. Maybe my ADUM1251 has gone bad, don't know.
>
> In any case, it looks like you have done an excellent job on your Warthog. I was trying to get mine to the piglet stage, then maybe it would grow up over time.....
>
> 73,
> Hank - wz3hmt
>
> --- In UHFSDR@yahoogroups.com, rhillard@ wrote:

> >
> > In the Photos section, I have uploaded a few pictures of my IF Radio transceiver that uses the UHFSDR and SDR2GO boards.
> >
> > The transceiver acts as the IF Radio for my 33cm and 23cm transverters, and also is a transceiver for the 222 MHz and 432 MHz bands.
> >
> > This is a 'stand alone' radio (no computer required), using the SDR2GO board developed by members of the Austin QRP club.
> >
> > More pictures to follow. . . . .
> >
> > Bob WA6UFQ
> >
>

1423. Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-03 09:21:47 UTC
From: bent_andersen@ymail.com
Topic: 1417 Message: 1423

HI Dawe

I have now install the powersdr 1.12.2 but when I mark the USBtoI2c bus converter at the setup.. it write "communication whit USB to I2C failed" ??? I can see libus-win32 device(DG8SAQ-I2C) at the computer.

somthing is wrong ?????

OZ1CT Bent

--- In UHFSDR@yahoogroups.com, Dave wrote:
>
> Bent:
> PowerSDR-IQ has support for divide by 2. I have used version 1.12.20
> available at
>
> There is a link to the download page in the group links. I haven't
> yet tried PowerSDRv2.4.4 for homemade_Rigs yet.
>
> Dave - WB6DHW
>
>
> On 2/1/2013 4:21 AM, bent_andersen@... wrote:
> >
> > HI all
> >
> > I installed Powersdr 2.4.4 and it has the possibility to
> > divide by 4 but would like to use 2 as my UHFSDR requires.
> > Now the question is ... what do you use instead ???, is there a early
> > version of powersdr that is "made" for the UHFSDR ???
> >
> > OZ1CT Bent
> >
> > _
> >
> >
> >
>

1424. Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-03 10:13:28 UTC
From: sv1eia
Topic: 1417 Message: 1424

Hi guys,

Bent, you can have a look at this folder
-> http://groups.yahoo.com/group/powersdr-iq/files/PowerSDR_v2.4.4_Homebrew_Div2/

Its freshly baked and got just out of the oven.. :-)

It has the divider by two as required by UHFSDR and a upper VFO frequency of 999 MHz.

Of course it requires the USB to I2C ATTiny controlling the UHFSDR's Si570.

Its not tested but you can give it a try and let us know.

73,
Christos SV1EIA

--- In UHFSDR@yahoogroups.com, "bent_andersen@..." wrote:
>
>
> HI Dawe
>
> I have now install the powersdr 1.12.2 but when I mark the USBtoI2c bus converter at the setup.. it write "communication whit USB to I2C failed" ??? I can see libus-win32 device(DG8SAQ-I2C) at the computer.
>
> somthing is wrong ?????
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> OZ1CT Bent
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> --- In UHFSDR@yahoogroups.com, Dave wrote:
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> > Bent:
> > PowerSDR-IQ has support for divide by 2. I have used version 1.12.20
> > available at
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> > yet tried PowerSDRv2.4.4 for homemade_Rigs yet.
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> > Dave - WB6DHW
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> >
> > On 2/1/2013 4:21 AM, bent_andersen@ wrote:
> > >
> > > HI all
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> > > I installed Powersdr 2.4.4 and it has the possibility to
> > > divide by 4 but would like to use 2 as my UHFSDR requires.

> > > Now the question is ... what do you use instead ???, is there a early
> > > version of powersdr that is "made" for the UHFSDR ???
> > >
> > > OZ1CT Bent
> > >
> > > _
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>

1425. Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-04 13:09:49 UTC
From: tony_g3ovh
Topic: 1417 Message: 1425

Hi

I have just posted this in the PowerSDR-IQ group, but in case you UHFSDR owners do no look at that group, I am posting it here:

Hi Christos

I have done some more investigation and have concluded that you have changed the divider ratio in the wrong direction. With my UHFSDR if I tune the new software to 20MHz, I am receiving on 79.9671MHz which is 4X the set frequency minus 4 X IF offset. Clicking the SR button changes this offset from 25.6 to 32.5 kHz.

Nearly there - I am sure. Is there anyone near who can lend you a UHFSDR?

Tony

--- In UHFSDR@yahoogroups.com, "sv1eia" wrote:
>
> Hi guys,
>
> Bent, you can have a look at this folder
> -> http://groups.yahoo.com/group/powersdr-iq/files/PowerSDR_v2.4.4_Homebrew_Div2/
>
> Its freshly baked and got just out of the oven.. :-)
>
> It has the divider by two as required by UHFSDR and a upper VFO frequency of 999 MHz.
>
> Of course it requires the USB to I2C ATTiny controlling the UHFSDR's Si570.
>
> Its not tested but you can give it a try and let us know.
>
> 73,
> Christos SV1EIA
>
>
> --- In UHFSDR@yahoogroups.com, "bent_andersen@" wrote:
> >
> >
> > HI Dawe
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> > I have now install the powersdr 1.12.2 but when I mark the USBtoI2c bus converter at the setup.. it write "communication whit USB to I2C failed" ??? I can see libus-win32 device(DG8SAQ-I2C) at the computer.
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> > --- In UHFSDR@yahoogroups.com, Dave wrote:
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> > > Bent:
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> > > Dave - WB6DHW
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> > > On 2/1/2013 4:21 AM, bent_andersen@ wrote:
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> > > >
> > > > OZ1CT Bent
> > > >
> > > > _
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> >
>

1426. Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-04 17:58:30 UTC
From: bent_andersen@ymail.com
Topic: 1417 Message: 1426

HI Christos

The new version "Div2" work ok at 1-50mhz ...but it will not run on
144mhz ??? I use the ATTiny controller v15.15

Bent

--- In UHFSDR@yahoogroups.com, "sv1eia" wrote:
>
> Hi guys,
>
> Bent, you can have a look at this folder
> -> http://groups.yahoo.com/group/powersdr-iq/files/PowerSDR_v2.4.4_Homebrew_Div2/
>
> Its freshly baked and got just out of the oven.. :-)
>
> It has the divider by two as required by UHFSDR and a upper VFO frequency of 999 MHz.
>
> Of course it requires the USB to I2C ATTiny controlling the UHFSDR's Si570.
>
> Its not tested but you can give it a try and let us know.
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> 73,
> Christos SV1EIA
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> --- In UHFSDR@yahoogroups.com, "bent_andersen@" wrote:
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> > HI Dawe
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> > I have now install the powersdr 1.12.2 but when I mark the USBtoI2c bus converter at
the setup.. it write "communication whit USB to I2C failed" ??? I can see libus-win32
device(DG8SAQ-I2C) at the computer.
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> > > yet tried PowerSDRv2.4.4 for homemade_Rigs yet.
> > >
> > > Dave - WB6DHW
> > >
> > >
> > > On 2/1/2013 4:21 AM, bent_andersen@ wrote:
> > > >
> > > > HI all
> > > >
> > > > I installed Powersdr 2.4.4 and it has the possibility to
> > > > divide by 4 but would like to use 2 as my UHFSDR requires.
> > > > Now the question is ... what do you use instead ???, is there a early
> > > > version of powersdr that is "made" for the UHFSDR ???
> > > >
> > > > OZ1CT Bent
> > > >
> > > > _
> > > >
> > > >
> > > >
> > >
> >
>

1427. Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-04 18:03:25 UTC
From: sv1eia
Topic: 1417 Message: 1427

Tony,
As you see, it works for others.
It looks to me that you dont have replaced the two files as specified on the instructions.

--- In UHFSDR@yahoogroups.com, "tony_g3ovh" wrote:
>
> Hi
>
> I have just posted this in the PowerSDR-IQ group, but in case you UHFSDR owners do no look at that group, I am posting it here:
>
> Hi Christos
>
> I have done some more investigation and have concluded that you have changed the divider ratio in the wrong direction. With my UHFSDR if I tune the new software to 20MHz, I am receiving on 79.9671MHz which is 4X the set frequency minus 4 X IF offset. Clicking the SR button changes this offset from 25.6 to 32.5 kHz.
>
> Nearly there - I am sure. Is there anyone near who can lend you a UHFSDR?
>
> Tony
>
> --- In UHFSDR@yahoogroups.com, "sv1eia" wrote:
> >
> > Hi guys,
> >
> > Bent, you can have a look at this folder
> > -> http://groups.yahoo.com/group/powersdr-iq/files/PowerSDR_v2.4.4_Homebrew_Div2/
> >
> > Its freshly baked and got just out of the oven.. :-)
> >
> > It has the divider by two as required by UHFSDR and a upper VFO frequency of 999 MHz.
> >
> > Of course it requires the USB to I2C ATTiny controlling the UHFSDR's Si570.
> >
> > Its not tested but you can give it a try and let us know.
> >
> > 73,
> > Christos SV1EIA
> >
> >
> > --- In UHFSDR@yahoogroups.com, "bent_andersen@" wrote:
> > >
> > >
> > > HI Dawe

> > >
> > > I have now install the powersdr 1.12.2 but when I mark the USBtoI2c bus converter at the setup.. it write "communication whit USB to I2C failed" ??? I can see libus-win32 device(DG8SAQ-I2C) at the computer.
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> > > somthing is wrong ?????
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> > > OZ1CT Bent
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> > > --- In UHFSDR@yahoogroups.com, Dave wrote:
> > > >
> > > > Bent:
> > > > PowerSDR-IQ has support for divide by 2. I have used version 1.12.20
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> > > > There is a link to the download page in the group links. I haven't
> > > > yet tried PowerSDRv2.4.4 for homemade_Rigs yet.
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> > > > Dave - WB6DHW
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> > > > On 2/1/2013 4:21 AM, bent_andersen@ wrote:
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> > > > > HI all
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> > > > > I installed Powersdr 2.4.4 and it has the possibility to
> > > > > divide by 4 but would like to use 2 as my UHFSDR requires.
> > > > > Now the question is ... what do you use instead ???, is there a early
> > > > > version of powersdr that is "made" for the UHFSDR ???
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> > > > > OZ1CT Bent
> > > > >
> > > > > _
> > > > >
> > > > >
> > > > >
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> >
>

1428. Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-04 18:04:29 UTC
From: sv1eia
Topic: 1417 Message: 1428

You have to manually use the VFO.
Go to VFO dial and change the frequency directly.

--- In UHFSDR@yahoogroups.com, "bent_andersen@..." wrote:
>
>
> HI Christos
>
> The new version "Div2" work ok at 1-50mhz ...but it will not run on
> 144mhz ??? I use the ATTiny controller v15.15
>
> Bent
>
>
>
> --- In UHFSDR@yahoogroups.com, "sv1eia" wrote:
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> > Hi guys,
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> > Its freshly baked and got just out of the oven.. :-)
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> > It has the divider by two as required by UHFSDR and a upper VFO frequency of 999 MHz.
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> > Of course it requires the USB to I2C ATTiny controlling the UHFSDR's Si570.
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> > Its not tested but you can give it a try and let us know.
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> > 73,
> > Christos SV1EIA
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> > --- In UHFSDR@yahoogroups.com, "bent_andersen@" wrote:
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> > > HI Dawe
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> > > I have now install the powersdr 1.12.2 but when I mark the USBtoI2c bus converter at
the setup.. it write "communication whit USB to I2C failed" ??? I can see libus-win32
device(DG8SAQ-I2C) at the computer.
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> > > somthing is wrong ?????
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> > > OZ1CT Bent
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> > > --- In UHFSDR@yahoogroups.com, Dave wrote:
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> > > > Bent:
> > > > PowerSDR-IQ has support for divide by 2. I have used version 1.12.20
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> > > > yet tried PowerSDRv2.4.4 for homemade_Rigs yet.
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> > > > Dave - WB6DHW
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> > > > > HI all
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> > > > > divide by 4 but would like to use 2 as my UHFSDR requires.
> > > > > Now the question is ... what do you use instead ???, is there a early
> > > > > version of powersdr that is "made" for the UHFSDR ???
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> > > > > OZ1CT Bent
> > > > >
> > > > > _
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> > > > >
> > > > >
> > > >
> > >
> >
>

1429. RE: [UHFSDR] Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-04 18:16:47 UTC
From: MIKE DURKIN
Topic: 1417 Message: 1429

once --- again ----- i don't have web access to a group that iv joined , what 2 times already ...

Id verify your issues Brent, but i can't download the new flavor till Christos activates me ...

To: UHFSDR@yahoogroups.com
From: eskolin@...
Date: Mon, 4 Feb 2013 17:58:30 +0000
Subject: [UHFSDR] Re: PowerDSR and UHFSDR ???

HI Christos

The new version "Div2" work ok at 1-50mhz ...but it will not run on

144mhz ??? I use the ATTiny controller v15.15

Bent

--- In UHFSDR@yahoogroups.com, "sv1eia" wrote:

>

> Hi guys,

>

> Bent, you can have a look at this folder

> -> http://groups.yahoo.com/group/powersdr-iq/files/PowerSDR_v2.4.4_Homebrew_Div2/

>

> Its freshly baked and got just out of the oven.. :-)

>

> It has the divider by two as required by UHFSDR and a upper VFO frequency of 999 MHz.

>

> Of course it requires the USB to I2C ATTiny controlling the UHFSDR's Si570.

>

> Its not tested but you can give it a try and let us know.

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> 73,

> Christos SV1EIA

>

>

> --- In UHFSDR@yahoogroups.com, "bent_andersen@" wrote:

> >

> >

> > HI Dawe

> >

> > I have now install the powersdr 1.12.2 but when I mark the USBtoI2c bus converter at the setup.. it write "communication whit USB to I2C failed" ??? I can see libus-win32 device(DG8SAQ-I2C) at the computer.

> >

> > somthing is wrong ?????

> >

> > OZ1CT Bent

> >

> > --- In UHFSDR@yahoogroups.com, Dave wrote:

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> > > Bent:

> > > PowerSDR-IQ has support for divide by 2. I have used version 1.12.20

> > > available at

> > >

> > > There is a link to the download page in the group links. I haven't

> > > yet tried PowerSDRv2.4.4 for homemade_Rigs yet.

> > >

> > > Dave - WB6DHW

> > >

> > >

> > > On 2/1/2013 4:21 AM, bent_andersen@ wrote:

> > > >

> > > > HI all

> > > >

> > > > I installed Powersdr 2.4.4 and it has the possibility to

> > > > divide by 4 but would like to use 2 as my UHFSDR requires.

> > > > Now the question is ... what do you use instead ???, is there a early

> > > > version of powersdr that is "made" for the UHFSDR ???

> > > >

> > > > OZ1CT Bent

> > > >

> > > > _

> > > >

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>

1430. RE: [UHFSDR] Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-04 18:31:20 UTC
From: MIKE DURKIN
Topic: 1417 Message: 1430

Can you save the entry to favorites and recall ok ?

To: UHFSDR@yahoogroups.com
From: sv1eia@...
Date: Mon, 4 Feb 2013 18:04:29 +0000
Subject: [UHFSDR] Re: PowerDSR and UHFSDR ???

You have to manually use the VFO.

Go to VFO dial and change the frequency directly.

--- In UHFSDR@yahoogroups.com, "bent_andersen@..." wrote:

>

>

> HI Christos

>

> The new version "Div2" work ok at 1-50mhz ...but it will not run on

> 144mhz ??? I use the ATTiny controller v15.15

>

> Bent

>

>

>

> --- In UHFSDR@yahoogroups.com, "sv1eia" wrote:

> >

> > Hi guys,

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> > Bent, you can have a look at this folder

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> >

> > Its freshly baked and got just out of the oven.. :-)

> >

> > It has the divider by two as required by UHFSDR and a upper VFO frequency of 999 MHz.

> >

> > Of course it requires the USB to I2C ATTiny controlling the UHFSDR's Si570.

> >

> > Its not tested but you can give it a try and let us know.

> >

> > 73,

> > Christos SV1EIA

> >

> >

> > --- In UHFSDR@yahoogroups.com, "bent_andersen@" wrote:

> > >

> > >

> > > HI Dawe

> > >

> > > I have now install the powersdr 1.12.2 but when I mark the USBtoI2c bus converter at the setup.. it write "communication whit USB to I2C failed" ??? I can see libus-win32 device(DG8SAQ-I2C) at the computer.

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> > > OZ1CT Bent

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> > > --- In UHFSDR@yahoogroups.com, Dave wrote:

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> > > > Bent:

> > > > PowerSDR-IQ has support for divide by 2. I have used version 1.12.20

> > > > available at

> > > >

> > > > There is a link to the download page in the group links. I haven't

> > > > yet tried PowerSDRv2.4.4 for homemade_Rigs yet.

> > > >

> > > > Dave - WB6DHW

> > > >

> > > >

> > > > On 2/1/2013 4:21 AM, bent_andersen@ wrote:

> > > > >

> > > > > HI all

> > > > >

> > > > > I installed Powersdr 2.4.4 and it has the possibility to

> > > > > divide by 4 but would like to use 2 as my UHFSDR requires.

> > > > > Now the question is ... what do you use instead ???, is there a early

> > > > > version of powersdr that is "made" for the UHFSDR ???

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> > > > > OZ1CT Bent

> > > > >

> > > > > _

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1431. RE: [UHFSDR] Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-04 18:33:59 UTC
From: MIKE DURKIN
Topic: 1417 Message: 1431

What were your dividers set to in the AVR ?

To: UHFSDR@yahoogroups.com
From: tabbey01@...
Date: Mon, 4 Feb 2013 13:09:49 +0000
Subject: [UHFSDR] Re: PowerDSR and UHFSDR ???

Hi

I have just posted this in the PowerSDR-IQ group, but in case you UHFSDR owners do no look at that group, I am posting it here:

Hi Christos

I have done some more investigation and have concluded that you have changed the divider ratio in the wrong direction. With my UHFSDR if I tune the new software to 20MHz, I am receiving on 79.9671MHz which is 4X the set frequency minus 4 X IF offset. Clicking the SR button changes this offset from 25.6 to 32.5 kHz.

Nearly there - I am sure. Is there anyone near who can lend you a UHFSDR?

Tony

--- In UHFSDR@yahoogroups.com, "sv1eia" wrote:

>

> Hi guys,

>

> Bent, you can have a look at this folder

> -> http://groups.yahoo.com/group/powersdr-iq/files/PowerSDR_v2.4.4_Homebrew_Div2/

>

> Its freshly baked and got just out of the oven.. :-)

>

> It has the divider by two as required by UHFSDR and a upper VFO frequency of 999 MHz.

>

> Of course it requires the USB to I2C ATTiny controlling the UHFSDR's Si570.

>

> Its not tested but you can give it a try and let us know.

>

> 73,

> Christos SV1EIA

>

>

> --- In UHFSDR@yahoogroups.com, "bent_andersen@" wrote:

> >

> >

> > HI Dawe

> >

> > I have now install the powersdr 1.12.2 but when I mark the USBtoI2c bus converter at the setup.. it write "communication whit USB to I2C failed" ??? I can see libus-win32 device(DG8SAQ-I2C) at the computer.

> >

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> >

> > OZ1CT Bent

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> > --- In UHFSDR@yahoogroups.com, Dave wrote:

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> > > Bent:

> > > PowerSDR-IQ has support for divide by 2. I have used version 1.12.20

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> > > yet tried PowerSDRv2.4.4 for homemade_Rigs yet.

> > >

> > > Dave - WB6DHW

> > >

> > >

> > > On 2/1/2013 4:21 AM, bent_andersen@ wrote:

> > > >

> > > > HI all

> > > >

> > > > I installed Powersdr 2.4.4 and it has the possibility to

> > > > divide by 4 but would like to use 2 as my UHFSDR requires.

> > > > Now the question is ... what do you use instead ???, is there a early

> > > > version of powersdr that is "made" for the UHFSDR ???

> > > >

> > > > OZ1CT Bent

> > > >

> > > > _

> > > >

> > > >

> > > >

> > >

> >

>

1432. RE: [UHFSDR] Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-04 20:13:07 UTC
From: MIKE DURKIN
Topic: 1417 Message: 1432

OK .. here's my report ...

multiplier is working correctly ...

when i go past 100mhz the leading digit is not being taken, though you can enter 146.58(Mhz) the AVR is sent only to go to 46.58(hz)

thats progress though ...

To: UHFSDR@yahoogroups.com
From: sv1eia@...
Date: Mon, 4 Feb 2013 18:03:25 +0000
Subject: [UHFSDR] Re: PowerDSR and UHFSDR ???

Tony,

As you see, it works for others.

It looks to me that you dont have replaced the two files as specified on the instructions.

--- In UHFSDR@yahoogroups.com, "tony_g3ovh" wrote:

>

> Hi

>

> I have just posted this in the PowerSDR-IQ group, but in case you UHFSDR owners do no look at that group, I am posting it here:

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> Hi Christos

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> I have done some more investigation and have concluded that you have changed the divider ratio in the wrong direction. With my UHFSDR if I tune the new software to 20MHz, I am receiving on 79.9671MHz which is 4X the set frequency minus 4 X IF offset. Clicking the SR button changes this offset from 25.6 to 32.5 kHz.

>

> Nearly there - I am sure. Is there anyone near who can lend you a UHFSDR?

>

> Tony

>

> --- In UHFSDR@yahoogroups.com, "sv1eia" wrote:

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> > Hi guys,

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> > Bent, you can have a look at this folder

> > -> http://groups.yahoo.com/group/powersdr-iq/files/PowerSDR_v2.4.4_Homebrew_Div2/

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> > Its freshly baked and got just out of the oven.. :-)

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> > It has the divider by two as required by UHFSDR and a upper VFO frequency of 999 MHz.

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> > Of course it requires the USB to I2C ATTiny controlling the UHFSDR's Si570.

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> > Its not tested but you can give it a try and let us know.

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> > 73,

> > Christos SV1EIA

> >

> >

> > --- In UHFSDR@yahoogroups.com, "bent_andersen@" wrote:

> > >

> > >

> > > HI Dawe

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> > > > >

> > > > >

> > > >

> > >

> >

>

1433. RE: [UHFSDR] Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-04 20:21:52 UTC
From: MIKE DURKIN
Topic: 1417 Message: 1433

typo .... that was 46.58(Mhz)

To: uhfsdr@yahoogroups.com
From: Patriot121@msn.com
Date: Mon, 4 Feb 2013 12:13:07 -0800
Subject: RE: [UHFSDR] Re: PowerDSR and UHFSDR ???

OK .. here's my report ...

multiplier is working correctly ...

when i go past 100mhz the leading digit is not being taken, though you can enter 146.58(Mhz) the AVR is sent only to go to 46.58(hz)

thats progress though ...

To: UHFSDR@yahoogroups.com
From: sv1eia@...
Date: Mon, 4 Feb 2013 18:03:25 +0000
Subject: [UHFSDR] Re: PowerDSR and UHFSDR ???

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> > > > yet tried PowerSDRv2.4.4 for homemade_Rigs yet.

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> > > > Dave - WB6DHW

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> > > > On 2/1/2013 4:21 AM, bent_andersen@ wrote:

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> >

>

1434. Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-04 20:22:31 UTC
From: bent_andersen@ymail.com
Topic: 1417 Message: 1434

HI Christos

Sorry but it will not tune the vfo to 144mhz :-(

Bent

--- In UHFSDR@yahoogroups.com, "sv1eia" wrote:
>
> You have to manually use the VFO.
> Go to VFO dial and change the frequency directly.
>
>
> --- In UHFSDR@yahoogroups.com, "bent_andersen@" wrote:
> >
> >
> > HI Christos
> >
> > The new version "Div2" work ok at 1-50mhz ...but it will not run on
> > 144mhz ??? I use the ATTiny controller v15.15
> >
> > Bent
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> >
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> > > It has the divider by two as required by UHFSDR and a upper VFO frequency of 999 MHz.
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> > > Of course it requires the USB to I2C ATTiny controlling the UHFSDR's Si570.
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> > > > HI Dawe
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> > > > I have now install the powersdr 1.12.2 but when I mark the USBtoI2c bus converter at the setup.. it write "communication whit USB to I2C failed" ??? I can see libus-win32 device(DG8SAQ-I2C) at the computer.
> > > >
> > > > somthing is wrong ?????
> > > >
> > > > OZ1CT Bent
> > > >
> > > > --- In UHFSDR@yahoogroups.com, Dave wrote:
> > > > >
> > > > > Bent:
> > > > > PowerSDR-IQ has support for divide by 2. I have used version 1.12.20
> > > > > available at
> > > > >
> > > > > There is a link to the download page in the group links. I haven't
> > > > > yet tried PowerSDRv2.4.4 for homemade_Rigs yet.
> > > > >
> > > > > Dave - WB6DHW
> > > > >
> > > > >
> > > > > On 2/1/2013 4:21 AM, bent_andersen@ wrote:
> > > > > >
> > > > > > HI all
> > > > > >
> > > > > > I installed Powersdr 2.4.4 and it has the possibility to
> > > > > > divide by 4 but would like to use 2 as my UHFSDR requires.
> > > > > > Now the question is ... what do you use instead ???, is there a early
> > > > > > version of powersdr that is "made" for the UHFSDR ???
> > > > > >
> > > > > > OZ1CT Bent
> > > > > >
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1435. Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-04 20:32:31 UTC
From: bent_andersen@ymail.com
Topic: 1417 Message: 1435

HI Mike

yes I can save and recall...pse look in my Photo-album, I have upload a picture of it...
sorry but small ;-)

Bent

--- In UHFSDR@yahoogroups.com, MIKE DURKIN wrote:
>
>
> Can you save the entry to favorites and recall ok ?
>
> To: UHFSDR@yahoogroups.com
> From: sv1eia@...
> Date: Mon, 4 Feb 2013 18:04:29 +0000
> Subject: [UHFSDR] Re: PowerDSR and UHFSDR ???
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>
> You have to manually use the VFO.
>
> Go to VFO dial and change the frequency directly.
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>
> --- In UHFSDR@yahoogroups.com, "bent_andersen@" wrote:
>
> >
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>
> > HI Christos
>
> >
>
> > The new version "Div2" work ok at 1-50mhz ...but it will not run on
>
> > 144mhz ??? I use the ATTiny controller v15.15
>
> >
>
> > Bent
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>
> > --- In UHFSDR@yahoogroups.com, "sv1eia" wrote:
>
> > >
>
> > > Hi guys,
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> > >
>
> > > Bent, you can have a look at this folder
>
> > > -> http://groups.yahoo.com/group/powersdr-iq/files/PowerSDR_v2.4.4_Homebrew_Div2/
>
> > >
>
> > > Its freshly baked and got just out of the oven.. :-)
>
> > >
>
> > > It has the divider by two as required by UHFSDR and a upper VFO frequency of 999 MHz.
>
> > >
>
> > > Of course it requires the USB to I2C ATTiny controlling the UHFSDR's Si570.
>

> > >
>
> > > Its not tested but you can give it a try and let us know.
>
> > >
>
> > > 73,
>
> > > Christos SV1EIA
>
> > >
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> > >
>
> > > --- In UHFSDR@yahoogroups.com, "bent_andersen@" wrote:
>
> > > >
>
> > > >
>
> > > > HI Dawe
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> > > >
>
> > > > I have now install the powersdr 1.12.2 but when I mark the USBtoI2c bus converter at the setup.. it write "communication whit USB to I2C failed" ??? I can see libus-win32 device(DG8SAQ-I2C) at the computer.
>
> > > >
>
> > > > somthing is wrong ?????
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> > > >
>
> > > > OZ1CT Bent
>
> > > >
>
> > > > --- In UHFSDR@yahoogroups.com, Dave wrote:
>
> > > > >
>
> > > > > Bent:
>
> > > > > PowerSDR-IQ has support for divide by 2. I have used version 1.12.20
>
> > > > > available at
>
> > > > >
>

> > > > > There is a link to the download page in the group links. I haven't
>
> > > > > yet tried PowerSDRv2.4.4 for homemade_Rigs yet.
>
> > > > >
>
> > > > > Dave - WB6DHW
>
> > > > >
>
> > > > >
>
> > > > > On 2/1/2013 4:21 AM, bent_andersen@ wrote:
>
> > > > > >
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> > > > > > I installed Powersdr 2.4.4 and it has the possibility to
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> > > > > > divide by 4 but would like to use 2 as my UHFSDR requires.
>
> > > > > > Now the question is ... what do you use instead ???, is there a early
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> > > > > > version of powersdr that is "made" for the UHFSDR ???
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> > > > > >
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> > > > > > OZ1CT Bent
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1436. Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-04 21:06:51 UTC
From: sv1eia
Topic: 1417 Message: 1436

Have you set it up according to instructions, exactly?

Have you started the application as SDR1000?

Do you have the latest firmware in the ATTiny? (v15.15) so to have PE0FKO Command 0x32 support?

I dont know why you cannot have the 999MHz shown, I guess there is something wrong in file replacement. You have to be able to see this VFO indication at least up to 999MHz by dialing directly on the VFO dial.
Like this
-> http://groups.yahoo.com/group/UHFSDR/files/SV1EIA/999MHz.pdf

--- In UHFSDR@yahoogroups.com, "bent_andersen@..." wrote:
>
> HI Christos
>
> Sorry but it will not tune the vfo to 144mhz :-(
>
> Bent
>
> --- In UHFSDR@yahoogroups.com, "sv1eia" wrote:
> >
> > You have to manually use the VFO.
> > Go to VFO dial and change the frequency directly.
> >
> >
> > --- In UHFSDR@yahoogroups.com, "bent_andersen@" wrote:
> > >
> > >
> > > HI Christos
> > >
> > > The new version "Div2" work ok at 1-50mhz ...but it will not run on
> > > 144mhz ??? I use the ATTiny controller v15.15
> > >
> > > Bent
> > >
> > >
> > >
> > > --- In UHFSDR@yahoogroups.com, "sv1eia" wrote:
> > > >
> > > > Hi guys,
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> > > > Bent, you can have a look at this folder
> > > > -> http://groups.yahoo.com/group/powersdr-iq/files/PowerSDR_v2.4.4_Homebrew_Div2/
> > > >

> > > > Its freshly baked and got just out of the oven.. :-)
> > > >
> > > > It has the divider by two as required by UHFSDR and a upper VFO frequency of 999 MHz.
> > > >
> > > > Of course it requires the USB to I2C ATTiny controlling the UHFSDR's Si570.
> > > >
> > > > Its not tested but you can give it a try and let us know.
> > > >
> > > > 73,
> > > > Christos SV1EIA
> > > >
> > > >
> > > > --- In UHFSDR@yahoogroups.com, "bent_andersen@" wrote:
> > > > >
> > > > >
> > > > > HI Dawe
> > > > >
> > > > > I have now install the powersdr 1.12.2 but when I mark the USBtoI2c bus converter at the setup.. it write "communication whit USB to I2C failed" ??? I can see libus-win32 device(DG8SAQ-I2C) at the computer.
> > > > >
> > > > > somthing is wrong ?????
> > > > >
> > > > > OZ1CT Bent
> > > > >
> > > > > --- In UHFSDR@yahoogroups.com, Dave wrote:
> > > > > >
> > > > > > Bent:
> > > > > > PowerSDR-IQ has support for divide by 2. I have used version 1.12.20
> > > > > > available at
> > > > > >
> > > > > > There is a link to the download page in the group links. I haven't
> > > > > > yet tried PowerSDRv2.4.4 for homemade_Rigs yet.
> > > > > >
> > > > > > Dave - WB6DHW
> > > > > > >
> > > > > > >
> > > > > > On 2/1/2013 4:21 AM, bent_andersen@ wrote:
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> > > > > > > HI all
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> > > > > > > I installed Powersdr 2.4.4 and it has the possibility to
> > > > > > > divide by 4 but would like to use 2 as my UHFSDR requires.
> > > > > > > Now the question is ... what do you use instead ???, is there a early
> > > > > > > version of powersdr that is "made" for the UHFSDR ???
> > > > > > >
> > > > > > > OZ1CT Bent
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1437. RE: [UHFSDR] Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-04 23:49:41 UTC
From: MIKE DURKIN
Topic: 1417 Message: 1437

ok, at that time i had not tried ... since it used to not go above 60Mhz ....

its progress .... one little hickup ....

To: UHFSDR@yahoogroups.com
From: eskolin@...
Date: Mon, 4 Feb 2013 20:32:31 +0000
Subject: [UHFSDR] Re: PowerDSR and UHFSDR ???

HI Mike

yes I can save and recall...pse look in my Photo-album, I have upload a picture of it...
sorry but small ;-)

Bent

--- In UHFSDR@yahoogroups.com, MIKE DURKIN wrote:

>

>

> Can you save the entry to favorites and recall ok ?

>

> To: UHFSDR@yahoogroups.com

> From: sv1eia@...

> Date: Mon, 4 Feb 2013 18:04:29 +0000

> Subject: [UHFSDR] Re: PowerDSR and UHFSDR ???

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> You have to manually use the VFO.

>

> Go to VFO dial and change the frequency directly.

>

>

>

> --- In UHFSDR@yahoogroups.com, "bent_andersen@" wrote:

>

> >

>

> >

>

> > HI Christos

>

> >

>

> > The new version "Div2" work ok at 1-50mhz ...but it will not run on

>

> > 144mhz ??? I use the ATTiny controller v15.15

>

> >

>

> > Bent

>

> >

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> >

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> >

>

> > --- In UHFSDR@yahoogroups.com, "sv1eia" wrote:

>

> > >

>

> > > Hi guys,

>

> > >

>

> > > Bent, you can have a look at this folder

>

> > > -> http://groups.yahoo.com/group/powersdr-iq/files/PowerSDR_v2.4.4_Homebrew_Div2/

>

> > >

>

> > > Its freshly baked and got just out of the oven.. :-)

>

> > >

>

> > > It has the divider by two as required by UHFSDR and a upper VFO frequency of 999 MHz.

>

> > >

>

> > > Of course it requires the USB to I2C ATTiny controlling the UHFSDR's Si570.

>

> > >

>

> > > Its not tested but you can give it a try and let us know.

>

> > >

>

> > > 73,

>

> > > Christos SV1EIA

>

> > >

>

> > >

>

> > > --- In UHFSDR@yahoogroups.com, "bent_andersen@" wrote:

>

> > > >

>

> > > >

>

> > > > HI Dawe

>

> > > >

>

> > > > I have now install the powersdr 1.12.2 but when I mark the USBtoI2c bus converter at the setup.. it write "communication whit USB to I2C failed" ??? I can see libus-win32 device(DG8SAQ-I2C) at the computer.

>

> > > >

>

> > > > somthing is wrong ?????

>

> > > >

>

> > > > OZ1CT Bent

>

> > > >

>

> > > > --- In UHFSDR@yahoogroups.com, Dave wrote:

>

> > > > >

>

> > > > > Bent:

>

> > > > > PowerSDR-IQ has support for divide by 2. I have used version 1.12.20

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>

> > > > > There is a link to the download page in the group links. I haven't

>

> > > > > yet tried PowerSDRv2.4.4 for homemade_Rigs yet.

>

> > > > >

>

> > > > > Dave - WB6DHW

>

> > > > >

>

> > > > >

>

> > > > > On 2/1/2013 4:21 AM, bent_andersen@ wrote:

>

> > > > > >

>

> > > > > > HI all

>

> > > > > >

>

> > > > > > I installed Powersdr 2.4.4 and it has the possibility to

>

> > > > > > divide by 4 but would like to use 2 as my UHFSDR requires.

>

> > > > > > Now the question is ... what do you use instead ???, is there a early

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> > > > > > version of powersdr that is "made" for the UHFSDR ???

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> > > > > >

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> > > > > > OZ1CT Bent

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1438. Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-05 16:20:25 UTC
From: bent_andersen@ymail.com
Topic: 1417 Message: 1438

Hi Christos

>Have you set it up according to instructions, exactly? YES.... first installe the USB2I2c driver...then overwrite sdr1kusb.dll & powersdr.exe whit your new one.

> Have you started the application as SDR1000? YES
>
> Do you have the latest firmware in the ATTiny? (v15.15) so to have PE0FKO Command 0x32 support? Yes I have the last ATTiny v15,15

I can here the local FM-radio on 105mhz no problem...but it
wil not recive any signal on 144mhz ???

is there any "setup" in the SI570 I forgot ??

Bent

--- In UHFSDR@yahoogroups.com, "sv1eia" wrote:
>
> Have you set it up according to instructions, exactly?
>
> Have you started the application as SDR1000?
>
> Do you have the latest firmware in the ATTiny? (v15.15) so to have PE0FKO Command 0x32 support?
>
> I dont know why you cannot have the 999MHz shown, I guess there is something wrong in file replacement. You have to be able to see this VFO indication at least up to 999MHz by dialing directly on the VFO dial.
> Like this
> -> http://groups.yahoo.com/group/UHFSDR/files/SV1EIA/999MHz.pdf
>
>
>
> --- In UHFSDR@yahoogroups.com, "bent_andersen@" wrote:
> >
> > HI Christos
> >
> > Sorry but it will not tune the vfo to 144mhz :-(
> >
> > Bent
> >
> > --- In UHFSDR@yahoogroups.com, "sv1eia" wrote:
> > >
> > > You have to manually use the VFO.
> > > Go to VFO dial and change the frequency directly.

> > >
> > >
> > > --- In UHFSDR@yahoogroups.com, "bent_andersen@" wrote:
> > > >
> > > >
> > > > HI Christos
> > > >
> > > > The new version "Div2" work ok at 1-50mhz ...but it will not run on
> > > > 144mhz ??? I use the ATTiny controller v15.15
> > > >
> > > > Bent
> > > >
> > > >
> > > >
> > > > --- In UHFSDR@yahoogroups.com, "sv1eia" wrote:
> > > > >
> > > > > Hi guys,
> > > > >
> > > > > Bent, you can have a look at this folder
> > > > > ->
http://groups.yahoo.com/group/powersdr-iq/files/PowerSDR_v2.4.4_Homebrew_Div2/
> > > > >
> > > > > Its freshly baked and got just out of the oven.. :-)
> > > > >
> > > > > It has the divider by two as required by UHFSDR and a upper VFO frequency of 999
MHz.
> > > > >
> > > > > Of course it requires the USB to I2C ATTiny controlling the UHFSDR's Si570.
> > > > >
> > > > > Its not tested but you can give it a try and let us know.
> > > > >
> > > > > 73,
> > > > > Christos SV1EIA
> > > > >
> > > > >
> > > > > --- In UHFSDR@yahoogroups.com, "bent_andersen@" wrote:
> > > > > >
> > > > > >
> > > > > > HI Dawe
> > > > > >
> > > > > > I have now install the powersdr 1.12.2 but when I mark the USBtoI2c bus
converter at the setup.. it write "communication whit USB to I2C failed" ??? I can see
libus-win32 device(DG8SAQ-I2C) at the computer.
> > > > > >
> > > > > > somthing is wrong ?????
> > > > > >
> > > > > > OZ1CT Bent
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> > > > > > --- In UHFSDR@yahoogroups.com, Dave wrote:
> > > > > > >

> > > > > > > Bent:
> > > > > > > PowerSDR-IQ has support for divide by 2. I have used version 1.12.20
> > > > > > > available at
> > > > > > >
> > > > > > > There is a link to the download page in the group links. I haven't
> > > > > > > yet tried PowerSDRv2.4.4 for homemade_Rigs yet.
> > > > > > >
> > > > > > > Dave - WB6DHW
> > > > > > >
> > > > > > >
> > > > > > > On 2/1/2013 4:21 AM, bent_andersen@ wrote:
> > > > > > > >
> > > > > > > > HI all
> > > > > > > >
> > > > > > > > I installed Powersdr 2.4.4 and it has the possibility to
> > > > > > > > divide by 4 but would like to use 2 as my UHFSDR requires.
> > > > > > > > Now the question is ... what do you use instead ???, is there a early
> > > > > > > > version of powersdr that is "made" for the UHFSDR ???
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> > > > > > > > OZ1CT Bent
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1439. Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-05 19:38:58 UTC
From: tony_g3ovh
Topic: 1417 Message: 1439

Hi Christos
I have indeed replaced the files as required. However, I think I know the problem now from your other comments. I have never used the CFGSR configuration program, since PowerSDR-IQ took care of the offsets and division in the setup. I downloaded CFGSR which reports my USB AVR Si570 as having V1.4 firmware. Perhaps this is not compatible. The CFGSR application is able to set the required X2 frequency and can correctly calibrate the xtal oscillator and correctly tunes the Si570 from its own tuning tab, but I do not understand how those calibrations get into the new PowerSDR setup - as soon as I touch the frequency scale on PowerSDR it reverts to the X4 frequency and 9kHz offset.
I do not have a means of reprogramming the firmware on the AVR chip, and couldnt find a source of pre-programmed parts on the web. It looks like I will have to stay with the old PowerSDR-IQ version. As far as I can see, the only difference is the new (black) look anyway, buy perhaps there are changes inside that make it operate better.
cheers
Tony

--- In UHFSDR@yahoogroups.com, "sv1eia" wrote:
>
> Tony,
> As you see, it works for others.
> It looks to me that you dont have replaced the two files as specified on the instructions.
>
>
> --- In UHFSDR@yahoogroups.com, "tony_g3ovh" wrote:
> >
> > Hi
> >
> > I have just posted this in the PowerSDR-IQ group, but in case you UHFSDR owners do no look at that group, I am posting it here:
> >
> > Hi Christos
> >
> > I have done some more investigation and have concluded that you have changed the divider ratio in the wrong direction. With my UHFSDR if I tune the new software to 20MHz, I am receiving on 79.9671MHz which is 4X the set frequency minus 4 X IF offset. Clicking the SR button changes this offset from 25.6 to 32.5 kHz.
> >
> > Nearly there - I am sure. Is there anyone near who can lend you a UHFSDR?
> >
> > Tony
> >
> > --- In UHFSDR@yahoogroups.com, "sv1eia" wrote:
> > >
> > > Hi guys,

> > >
> > > Bent, you can have a look at this folder
> > > -> http://groups.yahoo.com/group/powersdr-iq/files/PowerSDR_v2.4.4_Homebrew_Div2/
> > >
> > > Its freshly baked and got just out of the oven.. :-)
> > >
> > > It has the divider by two as required by UHFSDR and a upper VFO frequency of 999 MHz.
> > >
> > > Of course it requires the USB to I2C ATTiny controlling the UHFSDR's Si570.
> > >
> > > Its not tested but you can give it a try and let us know.
> > >
> > > 73,
> > > Christos SV1EIA
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> > > --- In UHFSDR@yahoogroups.com, "bent_andersen@" wrote:
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> > > > HI Dawe
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> > > > I have now install the powersdr 1.12.2 but when I mark the USBtoI2c bus converter
at the setup.. it write "communication whit USB to I2C failed" ??? I can see libus-win32
device(DG8SAQ-I2C) at the computer.
> > > >
> > > > somthing is wrong ?????
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> > > > OZ1CT Bent
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> > > > --- In UHFSDR@yahoogroups.com, Dave wrote:
> > > > >
> > > > > Bent:
> > > > > PowerSDR-IQ has support for divide by 2. I have used version 1.12.20
> > > > > available at
> > > > >
> > > > > There is a link to the download page in the group links. I haven't
> > > > > yet tried PowerSDRv2.4.4 for homemade_Rigs yet.
> > > > >
> > > > > Dave - WB6DHW
> > > > >
> > > > >
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> > > > > > HI all
> > > > > >
> > > > > > I installed Powersdr 2.4.4 and it has the possibility to
> > > > > > divide by 4 but would like to use 2 as my UHFSDR requires.
> > > > > > Now the question is ... what do you use instead ???, is there a early
> > > > > > version of powersdr that is "made" for the UHFSDR ???
> > > > > >

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> > > > > > OZ1CT Bent
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1440. Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-05 20:08:24 UTC
From: sv1eia
Topic: 1417 Message: 1440

Bent,

If you go to the VFO-A and type 999, or with the roll of your mouse go up, does it show afterwards the frequency as shown here at 999MHz?
-> http://groups.yahoo.com/group/UHFSDR/files/SV1EIA/999MHz.pdf

can you make the VFO-A go at higher frequencies?

If you can set high frequencies to VFO-A dial, then check with a frequency meter the LO output from your Si570.

For VFO of 105 MHz it should have LO of 210MHz(-18KHz) at Si570's output and at VFO of 144MHz it should have 288MHz(-18KHz).

As a remark, make sure that you have the proper Si570 grade attached on your ATTiny..

Frequency Grade
Code Frequency Range Supported (MHz)
A 10-945, 970-1134, 1213-1417.5
B 10-810
C 10-280 (CMOS available to 160 MHz)

73,
Christos SV1EIA

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> Hi Christos
>
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>
> > Have you started the application as SDR1000? YES
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>
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>
> Bent
>
>
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> >
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> > > Sorry but it will not tune the vfo to 144mhz :-(
> > >
> > > Bent
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> > > >
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> > > >
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> > > > >
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> > > > > > Its freshly baked and got just out of the oven.. :-)
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> > > > > > It has the divider by two as required by UHFSDR and a upper VFO frequency of
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> > > > > >
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> > > > > > 73,
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libus-win32 device(DG8SAQ-I2C) at the computer.
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> > > > > > > >
> > > > > > > > Bent:
> > > > > > > > PowerSDR-IQ has support for divide by 2. I have used version 1.12.20
> > > > > > > > available at
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> > > > > > > > There is a link to the download page in the group links. I haven't
> > > > > > > > yet tried PowerSDRv2.4.4 for homemade_Rigs yet.
> > > > > > > >
> > > > > > > > Dave - WB6DHW
> > > > > > > >
> > > > > > > >
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> > > > > > > > >
> > > > > > > > > HI all
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1441. Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-05 20:18:59 UTC
From: sv1eia
Topic: 1417 Message: 1441

Ok Tony,

It looks that the firmware is making something there.
I do not have much experience at this, yet what is needed is that ATTiny should accept the 'direct' frequency of plain X 1 and no IF since the X 2 multiplier and the IF are handled by PSDR. These are pre-calculated and given included in the requested frequency to the firmware.
So ATTiny firmware should not act on its own and add multipliers or IF on a given freq.

I'm saying about the latest PE0FKO firmware since the new ones have proper high frequency support up to 2GHz of LO.

I hope these help.

73,
Christos SV1EIA

--- In UHFSDR@yahoogroups.com, "tony_g3ovh" wrote:
>
> Hi Christos
> I have indeed replaced the files as required. However, I think I know the problem now from your other comments. I have never used the CFGSR configuration program, since PowerSDR-IQ took care of the offsets and division in the setup. I downloaded CFGSR which reports my USB AVR Si570 as having V1.4 firmware. Perhaps this is not compatible. The CFGSR application is able to set the required X2 frequency and can correctly calibrate the xtal oscillator and correctly tunes the Si570 from its own tuning tab, but I do not understand how those calibrations get into the new PowerSDR setup - as soon as I touch the frequency scale on PowerSDR it reverts to the X4 frequency and 9kHz offset.
> I do not have a means of reprogramming the firmware on the AVR chip, and couldnt find a source of pre-programmed parts on the web. It looks like I will have to stay with the old PowerSDR-IQ version. As far as I can see, the only difference is the new (black) look anyway, buy perhaps there are changes inside that make it operate better.
> cheers
> Tony
>
>
> --- In UHFSDR@yahoogroups.com, "sv1eia" wrote:
> >
> > Tony,
> > As you see, it works for others.
> > It looks to me that you dont have replaced the two files as specified on the instructions.
> >
> >
> > --- In UHFSDR@yahoogroups.com, "tony_g3ovh" wrote:
> > >

> > > Hi
> > >
> > > I have just posted this in the PowerSDR-IQ group, but in case you UHFSDR owners do no look at that group, I am posting it here:
> > >
> > > Hi Christos
> > >
> > > I have done some more investigation and have concluded that you have changed the divider ratio in the wrong direction. With my UHFSDR if I tune the new software to 20MHz, I am receiving on 79.9671MHz which is 4X the set frequency minus 4 X IF offset. Clicking the SR button changes this offset from 25.6 to 32.5 kHz.
> > >
> > > Nearly there - I am sure. Is there anyone near who can lend you a UHFSDR?
> > >
> > > Tony
> > >
> > > --- In UHFSDR@yahoogroups.com, "sv1eia" wrote:
> > > >
> > > > Hi guys,
> > > >
> > > > Bent, you can have a look at this folder
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1442. RE: [UHFSDR] Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-05 20:31:07 UTC
From: MIKE DURKIN
Topic: 1417 Message: 1442

Christos,

would it matter if i had an older install of flex 2.4.4,

I have a 15.15 AVR and the only thing i noticed was that the max freq sent to the AVR was 99.999Mhhz .... once 100Mhz was hit the freq sent to the AVR was 00.00 ... etc, 144.90Mhz was seen on PE0FKO's(CFGSDR ?? man still cant remember PE0FKO's avr setting program's called) as 44.90Mhz ...

Dues to the fact that i have a dead display now makes it real tough to reproduce/test/change anything ..... for me to report.

I can enter any freq in VFO A .... even 470Mhz ... but what it reported by CFGSDR is --- well i dont rememebr now .... if it was 70Mhz or what ..... i think ill go to the garage and haual it all inside to my wife's laptop (what im using right now)

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: sv1eia@...
Date: Tue, 5 Feb 2013 20:08:24 +0000
Subject: [UHFSDR] Re: PowerDSR and UHFSDR ???

Bent,

If you go to the VFO-A and type 999, or with the roll of your mouse go up, does it show afterwards the frequency as shown here at 999MHz?

-> http://groups.yahoo.com/group/UHFSDR/files/SV1EIA/999MHz.pdf

can you make the VFO-A go at higher frequencies?

If you can set high frequencies to VFO-A dial, then check with a frequency meter the LO output from your Si570.

For VFO of 105 MHz it should have LO of 210MHz(-18KHz) at Si570's output and at VFO of 144MHz it should have 288MHz(-18KHz).

As a remark, make sure that you have the proper Si570 grade attached on your ATTiny..

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> > > > > > > >

> > > > > > > > On 2/1/2013 4:21 AM, bent_andersen@ wrote:

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1443. Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-05 20:43:48 UTC
From: sv1eia
Topic: 1417 Message: 1443

Mike,

That resembles behaviour of some older firmware where limitations to frequency existed. Double check your fw version.

--- In UHFSDR@yahoogroups.com, MIKE DURKIN wrote:
>
> Christos,
>
> would it matter if i had an older install of flex 2.4.4,
>
> I have a 15.15 AVR and the only thing i noticed was that the max freq sent to the AVR was 99.999Mhhz .... once 100Mhz was hit the freq sent to the AVR was 00.00 ... etc, 144.90Mhz was seen on PE0FKO's(CFGSDR ?? man still cant remember PE0FKO's avr setting program's called) as 44.90Mhz ...
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> Mike KC7NOA
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> Date: Tue, 5 Feb 2013 20:08:24 +0000
> Subject: [UHFSDR] Re: PowerDSR and UHFSDR ???
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> > I can here the local FM-radio on 105mhz no problem...but it
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> > > > > > > --- In UHFSDR@yahoogroups.com, "bent_andersen@" wrote:
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libus-win32 device(DG8SAQ-I2C) at the computer.
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> > > > > > > > > PowerSDR-IQ has support for divide by 2. I have used version 1.12.20

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> > > > > > > > > Dave - WB6DHW
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1444. RE: [UHFSDR] Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-05 20:51:34 UTC
From: MIKE DURKIN
Topic: 1417 Message: 1444

Sure .. can do .... but, with HDSDR, iv listened to my local 223.6Mhz trunk ..... on the same windows install.

To: UHFSDR@yahoogroups.com
From: sv1eia@...
Date: Tue, 5 Feb 2013 20:43:48 +0000
Subject: [UHFSDR] Re: PowerDSR and UHFSDR ???

Mike,

That resembles behaviour of some older firmware where limitations to frequency existed.

Double check your fw version.

--- In UHFSDR@yahoogroups.com, MIKE DURKIN wrote:

>

> Christos,

>

> would it matter if i had an older install of flex 2.4.4,

>

> I have a 15.15 AVR and the only thing i noticed was that the max freq sent to the AVR was 99.999Mhhz .... once 100Mhz was hit the freq sent to the AVR was 00.00 ... etc, 144.90Mhz was seen on PE0FKO's(CFGSDR ?? man still cant remember PE0FKO's avr setting program's called) as 44.90Mhz ...

>

> Dues to the fact that i have a dead display now makes it real tough to reproduce/test/change anything ..... for me to report.

>

> I can enter any freq in VFO A .... even 470Mhz ... but what it reported by CFGSDR is --- well i dont rememebr now .... if it was 70Mhz or what ..... i think ill go to the garage and haual it all inside to my wife's laptop (what im using right now)

>

> Mike KC7NOA

>

> To: UHFSDR@yahoogroups.com

> From: sv1eia@...

> Date: Tue, 5 Feb 2013 20:08:24 +0000

> Subject: [UHFSDR] Re: PowerDSR and UHFSDR ???

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> Bent,

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> If you go to the VFO-A and type 999, or with the roll of your mouse go up, does it show afterwards the frequency as shown here at 999MHz?

>

> -> http://groups.yahoo.com/group/UHFSDR/files/SV1EIA/999MHz.pdf

>

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> can you make the VFO-A go at higher frequencies?

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>

> If you can set high frequencies to VFO-A dial, then check with a frequency meter the LO output from your Si570.

>

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>

> For VFO of 105 MHz it should have LO of 210MHz(-18KHz) at Si570's output and at VFO of 144MHz it should have 288MHz(-18KHz).

>

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>

> As a remark, make sure that you have the proper Si570 grade attached on your ATTiny..

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> Frequency Grade

>

> Code Frequency Range Supported (MHz)

>

> A 10-945, 970-1134, 1213-1417.5

>

> B 10-810

>

> C 10-280 (CMOS available to 160 MHz)

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> 73,

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> Christos SV1EIA

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> --- In UHFSDR@yahoogroups.com, "bent_andersen@" wrote:

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>

> > Hi Christos

>

> >

>

> > > >Have you set it up according to instructions, exactly? YES.... first installe the USB2I2c driver...then overwrite sdr1kusb.dll & powersdr.exe whit your new one.

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> > > Have you started the application as SDR1000? YES

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> > > Do you have the latest firmware in the ATTiny? (v15.15) so to have PE0FKO Command 0x32 support? Yes I have the last ATTiny v15,15

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> > I can here the local FM-radio on 105mhz no problem...but it

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> > wil not recive any signal on 144mhz ???

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> > is there any "setup" in the SI570 I forgot ??

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> > > I dont know why you cannot have the 999MHz shown, I guess there is something wrong in file replacement. You have to be able to see this VFO indication at least up to 999MHz by dialing directly on the VFO dial.

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> > > > Sorry but it will not tune the vfo to 144mhz :-(

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> > > > Bent

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> > > > --- In UHFSDR@...m, "sv1eia" wrote:

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> > > > > You have to manually use the VFO.

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> > > > > Go to VFO dial and change the frequency directly.

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> > > > > > The new version "Div2" work ok at 1-50mhz ...but it will not run on

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> > > > > > 144mhz ??? I use the ATTiny controller v15.15

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> > > > > > > > Hi guys,

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> > > > > > > > Bent, you can have a look at this folder

>

> > > > > > > ->
http://groups.yahoo.com/group/powersdr-iq/files/PowerSDR_v2.4.4_Homebrew_Div2/

>

> > > > > > >

>

> > > > > > > Its freshly baked and got just out of the oven.. :-)

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> > > > > > > It has the divider by two as required by UHFSDR and a upper VFO frequency of 999 MHz.

>

> > > > > > >

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> > > > > > > Of course it requires the USB to I2C ATTiny controlling the UHFSDR's Si570.

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> > > > > > > Its not tested but you can give it a try and let us know.

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> > > > > > > 73,

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1445. Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-05 20:59:46 UTC
From: sv1eia
Topic: 1417 Message: 1445

Ok, but I dont know how hdsdr is utilizing the fw, as I said I use its 0X32 direct frequency set command.
They might use the older Si570 register set which is a different method.

--- In UHFSDR@yahoogroups.com, MIKE DURKIN wrote:
>
> Sure .. can do .... but, with HDSDR, iv listened to my local 223.6Mhz trunk ..... on the same windows install.
>
> To: UHFSDR@yahoogroups.com
> From: sv1eia@...
> Date: Tue, 5 Feb 2013 20:43:48 +0000
> Subject: [UHFSDR] Re: PowerDSR and UHFSDR ???
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> Mike,
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> That resembles behaviour of some older firmware where limitations to frequency existed.
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> Double check your fw version.
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> > From: sv1eia@
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> > Date: Tue, 5 Feb 2013 20:08:24 +0000
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> > Subject: [UHFSDR] Re: PowerDSR and UHFSDR ???
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> > If you go to the VFO-A and type 999, or with the roll of your mouse go up, does it show afterwards the frequency as shown here at 999MHz?
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> > -> http://groups.yahoo.com/group/UHFSDR/files/SV1EIA/999MHz.pdf
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> > can you make the VFO-A go at higher frequencies?
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> > For VFO of 105 MHz it should have LO of 210MHz(-18KHz) at Si570's output and at VFO of 144MHz it should have 288MHz(-18KHz).
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> > As a remark, make sure that you have the proper Si570 grade attached on your ATTiny..
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> > > > > > > > > > > There is a link to the download page in the group links. I haven't
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> > > > > > > > > > > yet tried PowerSDRv2.4.4 for homemade_Rigs yet.
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> > > > > > > > > > > Dave - WB6DHW
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> > > > > > > > > > On 2/1/2013 4:21 AM, bent_andersen@ wrote:
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> > > > > > > > > > > HI all
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> > > > > > > > > > > I installed Powersdr 2.4.4 and it has the possibility to
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> > > > > > > > > > > divide by 4 but would like to use 2 as my UHFSDR requires.
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> > > > > > > > > > > Now the question is ... what do you use instead ???, is there a early
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> > > > > > > > > > > version of powersdr that is "made" for the UHFSDR ???
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1446. RE: [UHFSDR] Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-05 21:05:59 UTC
From: MIKE DURKIN
Topic: 1417 Message: 1446

ok, im using my wife's puter, win7 ...

so to use this X32 support? .... I have firware 15.15 reported from
PE0FKO's build is 602 V2.06

Mike KC7NOA

oh.. and yea.. when 447Mhz is in VFO A, PE0FKO shows 47Mhz .....

To: UHFSDR@yahoogroups.com
From: sv1eia@...
Date: Tue, 5 Feb 2013 20:59:46 +0000
Subject: [UHFSDR] Re: PowerDSR and UHFSDR ???

Ok, but I dont know how hdsdr is utilizing the fw, as I said I use its 0X32 direct
frequency set command.

They might use the older Si570 register set which is a different method.

--- In UHFSDR@yahoogroups.com, MIKE DURKIN wrote:

>

> Sure .. can do .... but, with HDSDR, iv listened to my local 223.6Mhz trunk ..... on the
same windows install.

>

> To: UHFSDR@yahoogroups.com

> From: sv1eia@...

> Date: Tue, 5 Feb 2013 20:43:48 +0000

> Subject: [UHFSDR] Re: PowerDSR and UHFSDR ???

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> Mike,

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> That resembles behaviour of some older firmware where limitations to frequency existed.

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> Double check your fw version.

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> --- In UHFSDR@yahoogroups.com, MIKE DURKIN wrote:

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> > Christos,

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> > would it matter if i had an older install of flex 2.4.4,

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> > I have a 15.15 AVR and the only thing i noticed was that the max freq sent to the AVR was 99.999Mhhz .... once 100Mhz was hit the freq sent to the AVR was 00.00 ... etc, 144.90Mhz was seen on PE0FKO's(CFGSDR ?? man still cant remember PE0FKO's avr setting program's called) as 44.90Mhz ...

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> > Dues to the fact that i have a dead display now makes it real tough to reproduce/test/change anything ..... for me to report.

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> > I can enter any freq in VFO A .... even 470Mhz ... but what it reported by CFGSDR is --- well i dont rememebr now .... if it was 70Mhz or what ..... i think ill go to the garage and haual it all inside to my wife's laptop (what im using right now)

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> >

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> > Mike KC7NOA

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> > To: UHFSDR@yahoogroups.com

>

> > From: sv1eia@

>

> > Date: Tue, 5 Feb 2013 20:08:24 +0000

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> > Subject: [UHFSDR] Re: PowerDSR and UHFSDR ???

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> > Bent,

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> > If you go to the VFO-A and type 999, or with the roll of your mouse go up, does it show afterwards the frequency as shown here at 999MHz?

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> > -> http://groups.yahoo.com/group/UHFSDR/files/SV1EIA/999MHz.pdf

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> > can you make the VFO-A go at higher frequencies?

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> > If you can set high frequencies to VFO-A dial, then check with a frequency meter the LO output from your Si570.

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> > For VFO of 105 MHz it should have LO of 210MHz(-18KHz) at Si570's output and at VFO of 144MHz it should have 288MHz(-18KHz).

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> > As a remark, make sure that you have the proper Si570 grade attached on your ATTiny..

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> > Frequency Grade

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> > Code Frequency Range Supported (MHz)

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> > A 10-945, 970-1134, 1213-1417.5

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> > B 10-810

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> > C 10-280 (CMOS available to 160 MHz)

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> > 73,

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> > Christos SV1EIA

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> > --- In UHFSDR@yahoogroups.com, "bent_andersen@" wrote:

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> > > Hi Christos

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> > > >Have you set it up according to instructions, exactly? YES.... first installe the USB2I2c driver...then overwrite sdr1kusb.dll & powersdr.exe whit your new one.

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> > > > Have you started the application as SDR1000? YES

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> > > > Do you have the latest firmware in the ATTiny? (v15.15) so to have PE0FKO Command 0x32 support? Yes I have the last ATTiny v15,15

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> > > I can here the local FM-radio on 105mhz no problem...but it

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> > > wil not recive any signal on 144mhz ???

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> > > is there any "setup" in the SI570 I forgot ??

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> > > --- In UHFSDR@yahoogroups.com, "sv1eia" wrote:

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> > > > Have you set it up according to instructions, exactly?

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> > > > Have you started the application as SDR1000?

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> > > > Do you have the latest firmware in the ATTiny? (v15.15) so to have PE0FKO Command 0x32 support?

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> > > > I dont know why you cannot have the 999MHz shown, I guess there is something wrong in file replacement. You have to be able to see this VFO indication at least up to 999MHz by dialing directly on the VFO dial.

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> > > > Like this

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> > > > -> http://groups.yahoo.com/group/UHFSDR/files/SV1EIA/999MHz.pdf

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> > > > --- In UHFSDR@yahoogroups.com, "bent_andersen@" wrote:

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> > > > > HI Christos

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> > > > > Sorry but it will not tune the vfo to 144mhz :-(

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> > > > > --- In UHFSDR@yahoogroups.com, "sv1eia" wrote:

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> > > > > > You have to manually use the VFO.

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> > > > > > Go to VFO dial and change the frequency directly.

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> > > > > > --- In UHFSDR@yahoogroups.com, "bent_andersen@" wrote:

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> > > > > > > HI Christos

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> > > > > > > The new version "Div2" work ok at 1-50mhz ...but it will not run on

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> > > > > > > 144mhz ??? I use the ATTiny controller v15.15

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> > > > > > > --- In UHFSDR@yahoogroups.com, "sv1eia" wrote:

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> > > > > > > > Hi guys,

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> > > > > > > > Bent, you can have a look at this folder

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> > > > > > > > ->
http://groups.yahoo.com/group/powersdr-iq/files/PowerSDR_v2.4.4_Homebrew_Div2/

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> > > > > > > > Its freshly baked and got just out of the oven.. :-)

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> > > > > > > > It has the divider by two as required by UHFSDR and a upper VFO frequency
of 999 MHz.

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> > > > > > > > Of course it requires the USB to I2C ATTiny controlling the UHFSDR's Si570.

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> > > > > > > > Its not tested but you can give it a try and let us know.

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> > > > > > > > 73,

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> > > > > > > > Christos SV1EIA

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> > > > > > > > --- In UHFSDR@yahoogroups.com, "bent_andersen@" wrote:

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> > > > > > > > > HI Dawe

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> > > > > > > > > I have now install the powersdr 1.12.2 but when I mark the USBtoI2c bus converter at the setup.. it write "communication whit USB to I2C failed" ??? I can see libus-win32 device(DG8SAQ-I2C) at the computer.

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> > > > > > > > > somthing is wrong ?????

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> > > > > > > > > OZ1CT Bent

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> > > > > > > > > --- In UHFSDR@yahoogroups.com, Dave wrote:

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> > > > > > > > > > Bent:

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> > > > > > > > > > PowerSDR-IQ has support for divide by 2. I have used version 1.12.20

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> > > > > > > > > > available at

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> > > > > > > > > > There is a link to the download page in the group links. I haven't

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> > > > > > > > > > yet tried PowerSDRv2.4.4 for homemade_Rigs yet.

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> > > > > > > > > > Dave - WB6DHW

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> > > > > > > > > > On 2/1/2013 4:21 AM, bent_andersen@ wrote:

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> > > > > > > > > > > HI all

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> > > > > > > > > > > I installed Powersdr 2.4.4 and it has the possibility to

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> > > > > > > > > > > divide by 4 but would like to use 2 as my UHFSDR requires.

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> > > > > > > > > > > Now the question is ... what do you use instead ???, is there a early

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> > > > > > > > > > > version of powersdr that is "made" for the UHFSDR ???

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1447. Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-05 21:14:53 UTC
From: sv1eia
Topic: 1417 Message: 1447

Can you verify this with an RF frequency counter on Si570's output?

It looks that you have both PSDR and CFGSR accessing the device concurrently, that is not a good thing if of course you do it.
Dont have anything else accessing the USB device appart from PSDR.

If you have the v15.15 then the X032 command is already included, you dont need to do anything.

--- In UHFSDR@yahoogroups.com, MIKE DURKIN wrote:
>
> ok, im using my wife's puter, win7 ...
>
> so to use this X32 support? .... I have firware 15.15 reported from
> PE0FKO's build is 602 V2.06
>
> Mike KC7NOA
>
> oh.. and yea.. when 447Mhz is in VFO A, PE0FKO shows 47Mhz .....
>
> To: UHFSDR@yahoogroups.com
> From: sv1eia@...
> Date: Tue, 5 Feb 2013 20:59:46 +0000
> Subject: [UHFSDR] Re: PowerDSR and UHFSDR ???
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> Ok, but I dont know how hdsdr is utilizing the fw, as I said I use its 0X32 direct frequency set command.
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> They might use the older Si570 register set which is a different method.
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> --- In UHFSDR@yahoogroups.com, MIKE DURKIN wrote:
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> >
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> > Sure .. can do .... but, with HDSDR, iv listened to my local 223.6Mhz trunk ..... on the same windows install.
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> > To: UHFSDR@yahoogroups.com
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> > From: sv1eia@
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> > Date: Tue, 5 Feb 2013 20:43:48 +0000
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> > Subject: [UHFSDR] Re: PowerDSR and UHFSDR ???
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> > Mike,
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> > That resembles behaviour of some older firmware where limitations to frequency existed.
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> > Double check your fw version.
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> > --- In UHFSDR@yahoogroups.com, MIKE DURKIN wrote:
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> > > Christos,
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> > > would it matter if i had an older install of flex 2.4.4,
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> > > I have a 15.15 AVR and the only thing i noticed was that the max freq sent to the AVR was 99.999Mhhz .... once 100Mhz was hit the freq sent to the AVR was 00.00 ... etc, 144.90Mhz was seen on PE0FKO's(CFGSDR ?? man still cant remember PE0FKO's avr setting program's called) as 44.90Mhz ...
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> > > Dues to the fact that i have a dead display now makes it real tough to reproduce/test/change anything ..... for me to report.
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> > > I can enter any freq in VFO A .... even 470Mhz ... but what it reported by CFGSDR is --- well i dont rememebr now .... if it was 70Mhz or what ..... i think ill go to the garage and haual it all inside to my wife's laptop (what im using right now)
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> > > Mike KC7NOA
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> > > To: UHFSDR@...m
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> > > From: sv1eia@
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> > > Date: Tue, 5 Feb 2013 20:08:24 +0000
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> > > If you go to the VFO-A and type 999, or with the roll of your mouse go up, does it show afterwards the frequency as shown here at 999MHz?

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> > > -> http://groups.yahoo.com/group/UHFSDR/files/SV1EIA/999MHz.pdf
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> > > can you make the VFO-A go at higher frequencies?
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> > > If you can set high frequencies to VFO-A dial, then check with a frequency meter the LO output from your Si570.
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> > > For VFO of 105 MHz it should have LO of 210MHz(-18KHz) at Si570's output and at VFO of 144MHz it should have 288MHz(-18KHz).
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> > > As a remark, make sure that you have the proper Si570 grade attached on your ATTiny..
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> > > Frequency Grade
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> > > Code Frequency Range Supported (MHz)
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> > > A 10-945, 970-1134, 1213-1417.5
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> > > C 10-280 (CMOS available to 160 MHz)
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> > > --- In UHFSDR@yahoogroups.com, "bent_andersen@" wrote:
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> > > > >Have you set it up according to instructions, exactly? YES.... first installe the USB2I2c driver...then overwrite sdr1kusb.dll & powersdr.exe whit your new one.
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> > > > > Have you started the application as SDR1000? YES
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> > > > > Do you have the latest firmware in the ATTiny? (v15.15) so to have PE0FKO Command 0x32 support? Yes I have the last ATTiny v15,15
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> > > > I can here the local FM-radio on 105mhz no problem...but it
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> > > > wil not recive any signal on 144mhz ???
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> > > > is there any "setup" in the SI570 I forgot ??
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> > > > > > Have you started the application as SDR1000?
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> > > > > Do you have the latest firmware in the ATTiny? (v15.15) so to have PE0FKO Command 0x32 support?
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> > > > > I dont know why you cannot have the 999MHz shown, I guess there is something wrong in file replacement. You have to be able to see this VFO indication at least up to 999MHz by dialing directly on the VFO dial.
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> > > > > Like this
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> > > > > -> http://groups.yahoo.com/group/UHFSDR/files/SV1EIA/999MHz.pdf
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> > > > > > Sorry but it will not tune the vfo to 144mhz :-(
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> > > > > > > You have to manually use the VFO.
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> > > > > > > > The new version "Div2" work ok at 1-50mhz ...but it will not run on
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> > > > > > > > 144mhz ??? I use the ATTiny controller v15.15
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> > > > > > > > > ->
http://groups.yahoo.com/group/powersdr-iq/files/PowerSDR_v2.4.4_Homebrew_Div2/
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> > > > > > > > > Its freshly baked and got just out of the oven.. :-)
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> > > > > > > > > > It has the divider by two as required by UHFSDR and a upper VFO frequency of 999 MHz.
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> > > > > > > > > > I have now install the powersdr 1.12.2 but when I mark the USBtoI2c bus converter at the setup.. it write "communication whit USB to I2C failed" ??? I can see libus-win32 device(DG8SAQ-I2C) at the computer.
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1448. RE: [UHFSDR] Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-05 21:23:07 UTC
From: MIKE DURKIN
Topic: 1417 Message: 1448

The PE0FKO is set to load freq on the tune tab .... at 99.98Mhz .. thats also what PE0FKO shows, when i go above that ... it seems to use only the right most two digits left of the decimal point ... leaving "1"44 -- "1" not sent i guess ...

I dont have power for the radio .... only the AVR is powered right now ....

To: UHFSDR@yahoogroups.com
From: sv1eia@...
Date: Tue, 5 Feb 2013 21:14:53 +0000
Subject: [UHFSDR] Re: PowerDSR and UHFSDR ???

Can you verify this with an RF frequency counter on Si570's output?

It looks that you have both PSDR and CFGSR accessing the device concurrently, that is not a good thing if of course you do it.

Dont have anything else accessing the USB device appart from PSDR.

If you have the v15.15 then the X032 command is already included, you dont need to do anything.

--- In UHFSDR@yahoogroups.com, MIKE DURKIN wrote:

>

> ok, im using my wife's puter, win7 ...

>

> so to use this X32 support? .... I have firware 15.15 reported from

> PE0FKO's build is 602 V2.06

>

> Mike KC7NOA

>

> oh.. and yea.. when 447Mhz is in VFO A, PE0FKO shows 47Mhz .....

>

> To: UHFSDR@yahoogroups.com

> From: sv1eia@...

> Date: Tue, 5 Feb 2013 20:59:46 +0000

> Subject: [UHFSDR] Re: PowerDSR and UHFSDR ???

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> Ok, but I dont know how hdsdr is utilizing the fw, as I said I use its 0X32 direct frequency set command.

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> They might use the older Si570 register set which is a different method.

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> --- In UHFSDR@yahoogroups.com, MIKE DURKIN wrote:

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>

> > Sure .. can do .... but, with HDSDR, iv listened to my local 223.6Mhz trunk ..... on the same windows install.

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> > To: UHFSDR@yahoogroups.com

>

> > From: sv1eia@

>

> > Date: Tue, 5 Feb 2013 20:43:48 +0000

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> > Subject: [UHFSDR] Re: PowerDSR and UHFSDR ???

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> > Mike,

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> > That resembles behaviour of some older firmware where limitations to frequency existed.

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> > Double check your fw version.

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> > --- In UHFSDR@yahoogroups.com, MIKE DURKIN wrote:

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> > > Christos,

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> > > would it matter if i had an older install of flex 2.4.4,

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> > > I have a 15.15 AVR and the only thing i noticed was that the max freq sent to the AVR was 99.999Mhhz .... once 100Mhz was hit the freq sent to the AVR was 00.00 ... etc,

144.90Mhz was seen on PE0FKO's(CFGSDR ?? man still cant remember PE0FKO's avr setting program's called) as 44.90Mhz ...

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> > > Dues to the fact that i have a dead display now makes it real tough to reproduce/test/change anything ..... for me to report.

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> > > I can enter any freq in VFO A .... even 470Mhz ... but what it reported by CFGSDR is --- well i dont rememebr now .... if it was 70Mhz or what ..... i think ill go to the garage and haual it all inside to my wife's laptop (what im using right now)

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> > > Mike KC7NOA

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> > > To: UHFSDR@yahoogroups.com

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> > > From: sv1eia@

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> > > Date: Tue, 5 Feb 2013 20:08:24 +0000

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> > > Subject: [UHFSDR] Re: PowerDSR and UHFSDR ???

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> > > If you go to the VFO-A and type 999, or with the roll of your mouse go up, does it show afterwards the frequency as shown here at 999MHz?

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> > > -> http://groups.yahoo.com/group/UHFSDR/files/SV1EIA/999MHz.pdf

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> > > can you make the VFO-A go at higher frequencies?

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> > > If you can set high frequencies to VFO-A dial, then check with a frequency meter the LO output from your Si570.

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> > > For VFO of 105 MHz it should have LO of 210MHz(-18KHz) at Si570's output and at VFO of 144MHz it should have 288MHz(-18KHz).

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> > > As a remark, make sure that you have the proper Si570 grade attached on your ATTiny..

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> > > Frequency Grade

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> > > Code Frequency Range Supported (MHz)

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> > > Christos SV1EIA

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> > > --- In UHFSDR@yahoogroups.com, "bent_andersen@" wrote:

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> > > > Hi Christos

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> > > > >Have you set it up according to instructions, exactly? YES.... first installe the USB2I2c driver...then overwrite sdr1kusb.dll & powersdr.exe whit your new one.

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> > > > > Have you started the application as SDR1000? YES

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> > > > > Do you have the latest firmware in the ATTiny? (v15.15) so to have PE0FKO Command 0x32 support? Yes I have the last ATTiny v15,15

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> > > > I can here the local FM-radio on 105mhz no problem...but it

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> > > > wil not recive any signal on 144mhz ???

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> > > > is there any "setup" in the SI570 I forgot ??

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> > > > --- In UHFSDR@yahoogroups.com, "sv1eia" wrote:

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> > > > > Have you set it up according to instructions, exactly?

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> > > > > Have you started the application as SDR1000?

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> > > > > Do you have the latest firmware in the ATTiny? (v15.15) so to have PE0FKO Command 0x32 support?

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> > > > > I dont know why you cannot have the 999MHz shown, I guess there is something wrong in file replacement. You have to be able to see this VFO indication at least up to 999MHz by dialing directly on the VFO dial.

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> > > > > Like this

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> > > > > -> http://groups.yahoo.com/group/UHFSDR/files/SV1EIA/999MHz.pdf

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> > > > > --- In UHFSDR@yahoogroups.com, "bent_andersen@" wrote:

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> > > > > > HI Christos

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> > > > > > Sorry but it will not tune the vfo to 144mhz :-(

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> > > > > > > You have to manually use the VFO.

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> > > > > > > Go to VFO dial and change the frequency directly.

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> > > > > > > > The new version "Div2" work ok at 1-50mhz ...but it will not run on

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> > > > > > > > 144mhz ??? I use the ATTiny controller v15.15

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> > > > > > > > > Hi guys,

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> > > > > > > > > Bent, you can have a look at this folder

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> > > > > > > > > ->
http://groups.yahoo.com/group/powersdr-iq/files/PowerSDR_v2.4.4_Homebrew_Div2/

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> > > > > > > > > Its freshly baked and got just out of the oven.. :-)

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> > > > > > > > > It has the divider by two as required by UHFSDR and a upper VFO frequency of 999 MHz.

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> > > > > > > > > Of course it requires the USB to I2C ATTiny controlling the UHFSDR's Si570.

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> > > > > > > > > Christos SV1EIA

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> > > > > > > > > --- In UHFSDR@yahoogroups.com, "bent_andersen@" wrote:

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> > > > > > > > > > > I have now install the powersdr 1.12.2 but when I mark the USBtoI2c bus converter at the setup.. it write "communication whit USB to I2C failed" ??? I can see libus-win32 device(DG8SAQ-I2C) at the computer.

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> > > > > > > > > > --- In UHFSDR@yahoogroups.com, Dave wrote:

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> > > > > > > > > > > PowerSDR-IQ has support for divide by 2. I have used version 1.12.20

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> > > > > > > > > > > > yet tried PowerSDRv2.4.4 for homemade_Rigs yet.

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> > > > > > > > > > > > On 2/1/2013 4:21 AM, bent_andersen@ wrote:

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> > > > > > > > > > > > divide by 4 but would like to use 2 as my UHFSDR requires.

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> > > > > > > > > > > > Now the question is ... what do you use instead ???, is there a early

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> > > > > > > > > > > > version of powersdr that is "made" for the UHFSDR ???

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1449. Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-05 21:33:25 UTC
From: tony_g3ovh
Topic: 1417 Message: 1449

Hi Christos

I see you are busy with Mike's problem presently. I would be interested to know what the divider setup is that other's are using where it is working. In any case, from what you said, it looks like you need no divide or offset in the firmware or DLL. Perhaps the default condition is with multiply by 4 permanently set, and then this new command you mention bypasses it to give straight no multiply of offset. And perhaps my V1.4 version doesnt have that. Except it works OK with PSDR-IQ - can you tell me how that interfaces to the Si570 - both parallel port and USB gave the correct divide ratio for the UHFSDR.

Tony

--- In UHFSDR@yahoogroups.com, "sv1eia" wrote:
>
> Ok Tony,
>
> It looks that the firmware is making something there.
> I do not have much experience at this, yet what is needed is that ATTiny should accept the 'direct' frequency of plain X 1 and no IF since the X 2 multiplier and the IF are handled by PSDR. These are pre-calculated and given included in the requested frequency to the firmware.
> So ATTiny firmware should not act on its own and add multipliers or IF on a given freq.
>
> I'm saying about the latest PE0FKO firmware since the new ones have proper high frequency support up to 2GHz of LO.
>
> I hope these help.
>
> 73,
> Christos SV1EIA
>
>
> --- In UHFSDR@yahoogroups.com, "tony_g3ovh" wrote:
> >
> > Hi Christos
> > I have indeed replaced the files as required. However, I think I know the problem now from your other comments. I have never used the CFGSR configuration program, since PowerSDR-IQ took care of the offsets and division in the setup. I downloaded CFGSR which reports my USB AVR Si570 as having V1.4 firmware. Perhaps this is not compatible. The CFGSR application is able to set the required X2 frequency and can correctly calibrate the xtal oscillator and correctly tunes the Si570 from its own tuning tab, but I do not understand how those calibrations get into the new PowerSDR setup - as soon as I touch the frequency scale on PowerSDR it reverts to the X4 frequency and 9kHz offset.
> > I do not have a means of reprogramming the firmware on the AVR chip, and couldnt find a source of pre-programmed parts on the web. It looks like I will have to stay with the old PowerSDR-IQ version. As far as I can see, the only difference is the new (black) look

anyway, buy perhaps there are changes inside that make it operate better.
> > cheers
> > Tony
> >
> >
> > --- In UHFSDR@yahoogroups.com, "sv1eia" wrote:
> > >
> > > Tony,
> > > As you see, it works for others.
> > > It looks to me that you dont have replaced the two files as specified on the instructions.
> > >
> > >
> > > --- In UHFSDR@yahoogroups.com, "tony_g3ovh" wrote:
> > > >
> > > > Hi
> > > >
> > > > I have just posted this in the PowerSDR-IQ group, but in case you UHFSDR owners do no look at that group, I am posting it here:
> > > >
> > > > Hi Christos
> > > >
> > > > I have done some more investigation and have concluded that you have changed the divider ratio in the wrong direction. With my UHFSDR if I tune the new software to 20MHz, I am receiving on 79.9671MHz which is 4X the set frequency minus 4 X IF offset. Clicking the SR button changes this offset from 25.6 to 32.5 kHz.
> > > >
> > > > Nearly there - I am sure. Is there anyone near who can lend you a UHFSDR?
> > > >
> > > > Tony
> > > >
> > > > --- In UHFSDR@yahoogroups.com, "sv1eia" wrote:
> > > > >
> > > > > Hi guys,
> > > > >
> > > > > Bent, you can have a look at this folder
> > > > > ->
http://groups.yahoo.com/group/powersdr-iq/files/PowerSDR_v2.4.4_Homebrew_Div2/
> > > > >
> > > > > Its freshly baked and got just out of the oven.. :-)
> > > > >
> > > > > It has the divider by two as required by UHFSDR and a upper VFO frequency of 999 MHz.
> > > > >
> > > > > Of course it requires the USB to I2C ATTiny controlling the UHFSDR's Si570.
> > > > >
> > > > > Its not tested but you can give it a try and let us know.
> > > > >
> > > > > 73,
> > > > > Christos SV1EIA
> > > > >

> > > > >
> > > > > --- In UHFSDR@yahoogroups.com, "bent_andersen@" wrote:
> > > > > >
> > > > > >
> > > > > > HI Dawe
> > > > > >
> > > > > > I have now install the powersdr 1.12.2 but when I mark the USBtoI2c bus converter at the setup.. it write "communication whit USB to I2C failed" ??? I can see libus-win32 device(DG8SAQ-I2C) at the computer.
> > > > > >
> > > > > > somthing is wrong ?????
> > > > > >
> > > > > > OZ1CT Bent
> > > > > >
> > > > > > --- In UHFSDR@yahoogroups.com, Dave wrote:
> > > > > > >
> > > > > > > Bent:
> > > > > > > PowerSDR-IQ has support for divide by 2. I have used version 1.12.20
> > > > > > > available at
> > > > > > >
> > > > > > > There is a link to the download page in the group links. I haven't
> > > > > > > yet tried PowerSDRv2.4.4 for homemade_Rigs yet.
> > > > > > >
> > > > > > > Dave - WB6DHW
> > > > > > >
> > > > > > >
> > > > > > > On 2/1/2013 4:21 AM, bent_andersen@ wrote:
> > > > > > > >
> > > > > > > > HI all
> > > > > > > >
> > > > > > > > I installed Powersdr 2.4.4 and it has the possibility to
> > > > > > > > divide by 4 but would like to use 2 as my UHFSDR requires.
> > > > > > > > Now the question is ... what do you use instead ???, is there a early
> > > > > > > > version of powersdr that is "made" for the UHFSDR ???
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> > > > > > > > OZ1CT Bent
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1450. RE: [UHFSDR] Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-05 21:45:00 UTC
From: MIKE DURKIN
Topic: 1417 Message: 1450

i kinda think its the same issue .... I have what you have too .. cept the AVR firmware .. im 15.15

To: UHFSDR@yahoogroups.com
From: tabbey01@gmail.com
Date: Tue, 5 Feb 2013 21:33:25 +0000
Subject: [UHFSDR] Re: PowerDSR and UHFSDR ???

Hi Christos

I see you are busy with Mike's problem presently. I would be interested to know what the divider setup is that other's are using where it is working. In any case, from what you said, it looks like you need no divide or offset in the firmware or DLL. Perhaps the default condition is with multiply by 4 permanently set, and then this new command you mention bypasses it to give straight no multiply of offset. And perhaps my V1.4 version doesnt have that. Except it works OK with PSDR-IQ - can you tell me how that interfaces to the Si570 - both parallel port and USB gave the correct divide ratio for the UHFSDR.

Tony

--- In UHFSDR@yahoogroups.com, "sv1eia" wrote:

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> Ok Tony,

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> It looks that the firmware is making something there.

> I do not have much experience at this, yet what is needed is that ATTiny should accept the 'direct' frequency of plain X 1 and no IF since the X 2 multiplier and the IF are handled by PSDR. These are pre-calculated and given included in the requested frequency to the firmware.

> So ATTiny firmware should not act on its own and add multipliers or IF on a given freq.

>

> I'm saying about the latest PE0FKO firmware since the new ones have proper high frequency support up to 2GHz of LO.

>

> I hope these help.

>

> 73,

> Christos SV1EIA

>

>

> --- In UHFSDR@yahoogroups.com, "tony_g3ovh" wrote:

> >

> > Hi Christos

> > I have indeed replaced the files as required. However, I think I know the problem now from your other comments. I have never used the CFGSR configuration program, since PowerSDR-IQ took care of the offsets and division in the setup. I downloaded CFGSR which reports my USB AVR Si570 as having V1.4 firmware. Perhaps this is not compatible. The CFGSR application is able to set the required X2 frequency and can correctly calibrate the xtal oscillator and correctly tunes the Si570 from its own tuning tab, but I do not understand how those calibrations get into the new PowerSDR setup - as soon as I touch the frequency scale on PowerSDR it reverts to the X4 frequency and 9kHz offset.

> > I do not have a means of reprogramming the firmware on the AVR chip, and couldnt find a source of pre-programmed parts on the web. It looks like I will have to stay with the old PowerSDR-IQ version. As far as I can see, the only difference is the new (black) look anyway, buy perhaps there are changes inside that make it operate better.

> > cheers

> > Tony

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> >

> > --- In UHFSDR@yahoogroups.com, "sv1eia" wrote:

> > >

> > > Tony,

> > > As you see, it works for others.

> > > It looks to me that you dont have replaced the two files as specified on the instructions.

> > >

> > >

> > > --- In UHFSDR@yahoogroups.com, "tony_g3ovh" wrote:

> > > >

> > > > Hi

> > > >

> > > > I have just posted this in the PowerSDR-IQ group, but in case you UHFSDR owners do no look at that group, I am posting it here:

> > > >

> > > > Hi Christos

> > > >

> > > > I have done some more investigation and have concluded that you have changed the divider ratio in the wrong direction. With my UHFSDR if I tune the new software to 20MHz, I am receiving on 79.9671MHz which is 4X the set frequency minus 4 X IF offset. Clicking the SR button changes this offset from 25.6 to 32.5 kHz.

> > > >

> > > > Nearly there - I am sure. Is there anyone near who can lend you a UHFSDR?

> > > >

> > > > Tony

> > > >

> > > > --- In UHFSDR@yahoogroups.com, "sv1eia" wrote:

> > > > >

> > > > > Hi guys,

> > > > >

> > > > > Bent, you can have a look at this folder

> > > > > ->
http://groups.yahoo.com/group/powersdr-iq/files/PowerSDR_v2.4.4_Homebrew_Div2/

> > > > >

> > > > > Its freshly baked and got just out of the oven.. :-)

> > > > >

> > > > > It has the divider by two as required by UHFSDR and a upper VFO frequency of 999 MHz.

> > > > >

> > > > > Of course it requires the USB to I2C ATTiny controlling the UHFSDR's Si570.

> > > > >

> > > > > Its not tested but you can give it a try and let us know.

> > > > >

> > > > > 73,

> > > > > Christos SV1EIA

> > > > >

> > > > >

> > > > > --- In UHFSDR@yahoogroups.com, "bent_andersen@" wrote:

> > > > > >

> > > > > >

> > > > > > HI Dawe

> > > > > >

> > > > > > I have now install the powersdr 1.12.2 but when I mark the USBtoI2c bus converter at the setup.. it write "communication whit USB to I2C failed" ??? I can see libus-win32 device(DG8SAQ-I2C) at the computer.

> > > > > >

> > > > > > somthing is wrong ?????

> > > > > >

> > > > > > OZ1CT Bent

> > > > > >

> > > > > > --- In UHFSDR@yahoogroups.com, Dave wrote:

> > > > > > >

> > > > > > > Bent:

> > > > > > > PowerSDR-IQ has support for divide by 2. I have used version 1.12.20

> > > > > > > available at

> > > > > > >

> > > > > > > There is a link to the download page in the group links. I haven't

> > > > > > > yet tried PowerSDRv2.4.4 for homemade_Rigs yet.

> > > > > > >

> > > > > > > Dave - WB6DHW

> > > > > > >

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> > > > > > > On 2/1/2013 4:21 AM, bent_andersen@ wrote:

> > > > > > >

> > > > > > > > HI all

> > > > > > > >

> > > > > > > > I installed Powersdr 2.4.4 and it has the possibility to

> > > > > > > > divide by 4 but would like to use 2 as my UHFSDR requires.

> > > > > > > > Now the question is ... what do you use instead ???, is there a early

> > > > > > > > version of powersdr that is "made" for the UHFSDR ???

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> > > > > > > > OZ1CT Bent

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1451. RE: [UHFSDR] Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-05 21:43:42 UTC
From: MIKE DURKIN
Topic: 1417 Message: 1451

still trying to verify Tx ....

Iv got power now ... keep getting outofband Tx error .. blah blah .. something about the filtersetting regoin 0

mike

To: UHFSDR@yahoogroups.com
From: sv1eia@...
Date: Tue, 5 Feb 2013 21:14:53 +0000
Subject: [UHFSDR] Re: PowerDSR and UHFSDR ???

Can you verify this with an RF frequency counter on Si570's output?

It looks that you have both PSDR and CFGSR accessing the device concurrently, that is not a good thing if of course you do it.

Dont have anything else accessing the USB device appart from PSDR.

If you have the v15.15 then the X032 command is already included, you dont need to do anything.

--- In UHFSDR@yahoogroups.com, MIKE DURKIN wrote:

>

> ok, im using my wife's puter, win7 ...

>

> so to use this X32 support? .... I have firware 15.15 reported from

> PE0FKO's build is 602 V2.06

>

> Mike KC7NOA

>

> oh.. and yea.. when 447Mhz is in VFO A, PE0FKO shows 47Mhz .....

>

> To: UHFSDR@yahoogroups.com

> From: sv1eia@...

> Date: Tue, 5 Feb 2013 20:59:46 +0000

> Subject: [UHFSDR] Re: PowerDSR and UHFSDR ???

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> Ok, but I dont know how hdsdr is utilizing the fw, as I said I use its 0X32 direct frequency set command.

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> They might use the older Si570 register set which is a different method.

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> --- In UHFSDR@yahoogroups.com, MIKE DURKIN wrote:

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> >

>

> > Sure .. can do .... but, with HDSDR, iv listened to my local 223.6Mhz trunk ..... on the same windows install.

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> >

>

> > To: UHFSDR@yahoogroups.com

>

> > From: sv1eia@

>

> > Date: Tue, 5 Feb 2013 20:43:48 +0000

>

> > Subject: [UHFSDR] Re: PowerDSR and UHFSDR ???

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> > Mike,

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> > That resembles behaviour of some older firmware where limitations to frequency existed.

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> > Double check your fw version.

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> > --- In UHFSDR@yahoogroups.com, MIKE DURKIN wrote:

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> > > Christos,

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> > > would it matter if i had an older install of flex 2.4.4,

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> > > I have a 15.15 AVR and the only thing i noticed was that the max freq sent to the AVR was 99.999Mhhz .... once 100Mhz was hit the freq sent to the AVR was 00.00 ... etc, 144.90Mhz was seen on PE0FKO's(CFGSDR ?? man still cant remember PE0FKO's avr setting program's called) as 44.90Mhz ...

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> > > Dues to the fact that i have a dead display now makes it real tough to reproduce/test/change anything ..... for me to report.

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> > > I can enter any freq in VFO A .... even 470Mhz ... but what it reported by CFGSDR is --- well i dont rememebr now .... if it was 70Mhz or what ..... i think ill go to the garage and haual it all inside to my wife's laptop (what im using right now)

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> > > Mike KC7NOA

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> > > To: UHFSDR@yahoogroups.com

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> > > From: sv1eia@

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> > > Date: Tue, 5 Feb 2013 20:08:24 +0000

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> > > Subject: [UHFSDR] Re: PowerDSR and UHFSDR ???

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> > > If you go to the VFO-A and type 999, or with the roll of your mouse go up, does it show afterwards the frequency as shown here at 999MHz?

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> > > -> http://groups.yahoo.com/group/UHFSDR/files/SV1EIA/999MHz.pdf

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> > > can you make the VFO-A go at higher frequencies?

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> > > If you can set high frequencies to VFO-A dial, then check with a frequency meter the LO output from your Si570.

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> > > For VFO of 105 MHz it should have LO of 210MHz(-18KHz) at Si570's output and at VFO of 144MHz it should have 288MHz(-18KHz).

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> > > As a remark, make sure that you have the proper Si570 grade attached on your ATTiny..

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> > > Code Frequency Range Supported (MHz)

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> > > B 10-810

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> > > C 10-280 (CMOS available to 160 MHz)

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> > > Christos SV1EIA

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> > > --- In UHFSDR@yahoogroups.com, "bent_andersen@" wrote:

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> > > > Hi Christos

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> > > > >Have you set it up according to instructions, exactly? YES.... first installe the USB2I2c driver...then overwrite sdr1kusb.dll & powersdr.exe whit your new one.

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> > > > > Have you started the application as SDR1000? YES

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> > > > > Do you have the latest firmware in the ATTiny? (v15.15) so to have PE0FKO Command 0x32 support? Yes I have the last ATTiny v15,15

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> > > > I can here the local FM-radio on 105mhz no problem...but it

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> > > > wil not recive any signal on 144mhz ???

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> > > > is there any "setup" in the SI570 I forgot ??

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> > > > --- In UHFSDR@yahoogroups.com, "sv1eia" wrote:

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> > > > > Have you set it up according to instructions, exactly?

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> > > > > Have you started the application as SDR1000?

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> > > > > Do you have the latest firmware in the ATTiny? (v15.15) so to have PE0FKO Command 0x32 support?

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> > > > > I dont know why you cannot have the 999MHz shown, I guess there is something wrong in file replacement. You have to be able to see this VFO indication at least up to 999MHz by dialing directly on the VFO dial.

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> > > > > Like this

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> > > > > -> http://groups.yahoo.com/group/UHFSDR/files/SV1EIA/999MHz.pdf

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> > > > > --- In UHFSDR@yahoogroups.com, "bent_andersen@" wrote:

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> > > > > > HI Christos

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> > > > > > Sorry but it will not tune the vfo to 144mhz :-(

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> > > > > > --- In UHFSDR@yahoogroups.com, "sv1eia" wrote:

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> > > > > > > You have to manually use the VFO.

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> > > > > > > Go to VFO dial and change the frequency directly.

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> > > > > > > --- In UHFSDR@yahoogroups.com, "bent_andersen@" wrote:

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> > > > > > > > The new version "Div2" work ok at 1-50mhz ...but it will not run on

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> > > > > > > > 144mhz ??? I use the ATTiny controller v15.15

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> > > > > > > > --- In UHFSDR@yahoogroups.com, "sv1eia" wrote:

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> > > > > > > > > Hi guys,

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> > > > > > > > > Bent, you can have a look at this folder

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> > > > > > > > > ->
http://groups.yahoo.com/group/powersdr-iq/files/PowerSDR_v2.4.4_Homebrew_Div2/

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> > > > > > > > > > Its freshly baked and got just out of the oven.. :-)

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> > > > > > > > > It has the divider by two as required by UHFSDR and a upper VFO frequency of 999 MHz.

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> > > > > > > > > Of course it requires the USB to I2C ATTiny controlling the UHFSDR's Si570.

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> > > > > > > > > Its not tested but you can give it a try and let us know.

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> > > > > > > > > > I have now install the powersdr 1.12.2 but when I mark the USBtoI2c bus converter at the setup.. it write "communication whit USB to I2C failed" ??? I can see libus-win32 device(DG8SAQ-I2C) at the computer.

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> > > > > > > > > > > Bent:

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> > > > > > > > > > > PowerSDR-IQ has support for divide by 2. I have used version 1.12.20

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> > > > > > > > > > > > There is a link to the download page in the group links. I haven't

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> > > > > > > > > > > yet tried PowerSDRv2.4.4 for homemade_Rigs yet.

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> > > > > > > > > > > On 2/1/2013 4:21 AM, bent_andersen@ wrote:

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> > > > > > > > > > > > divide by 4 but would like to use 2 as my UHFSDR requires.

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> > > > > > > > > > > > Now the question is ... what do you use instead ???, is there a early

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> > > > > > > > > > > > version of powersdr that is "made" for the UHFSDR ???

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1452. Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-05 22:45:13 UTC
From: tony_g3ovh
Topic: 1417 Message: 1452

Hi Mike

I get something similar but for a more obvious reason - to receive on 4m (70MHz) I need to set the Rx frequency to 17.5MHz, so the s/w thinks it is in a non amateur band so wont let me transmit. I suppose it would have similar problem with filter selection when that's implemented.

Tony

--- In UHFSDR@yahoogroups.com, MIKE DURKIN wrote:
>
> still trying to verify Tx ....
>
> Iv got power now ... keep getting outofband Tx error .. blah blah .. something about the filtersetting regoin 0
>
> mike
>
> To: UHFSDR@yahoogroups.com
> From: sv1eia@...
> Date: Tue, 5 Feb 2013 21:14:53 +0000
> Subject: [UHFSDR] Re: PowerDSR and UHFSDR ???
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> Can you verify this with an RF frequency counter on Si570's output?
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> It looks that you have both PSDR and CFGSR accessing the device concurrently, that is not
a good thing if of course you do it.
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> Dont have anything else accessing the USB device appart from PSDR.
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>
> If you have the v15.15 then the X032 command is already included, you dont need to do
anything.
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>
>
> --- In UHFSDR@yahoogroups.com, MIKE DURKIN wrote:
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> >
>
> > ok, im using my wife's puter, win7 ...
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>
> > so to use this X32 support? .... I have firware 15.15 reported from
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> > PE0FKO's build is 602 V2.06
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> > Mike KC7NOA
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> > oh.. and yea.. when 447Mhz is in VFO A, PE0FKO shows 47Mhz .....
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> > To: UHFSDR@yahoogroups.com
>
> > From: sv1eia@
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> > Date: Tue, 5 Feb 2013 20:59:46 +0000
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> > Subject: [UHFSDR] Re: PowerDSR and UHFSDR ???
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> > Ok, but I dont know how hdsdr is utilizing the fw, as I said I use its 0X32 direct frequency set command.
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> > They might use the older Si570 register set which is a different method.
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> > --- In UHFSDR@yahoogroups.com, MIKE DURKIN wrote:
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> > > Sure .. can do .... but, with HDSDR, iv listened to my local 223.6Mhz trunk ..... on the same windows install.
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> > > To: UHFSDR@yahoogroups.com
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> > > From: sv1eia@
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> > > Date: Tue, 5 Feb 2013 20:43:48 +0000
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> > > Subject: [UHFSDR] Re: PowerDSR and UHFSDR ???
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> > > That resembles behaviour of some older firmware where limitations to frequency existed.
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> > > Double check your fw version.
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> > > --- In UHFSDR@yahoogroups.com, MIKE DURKIN wrote:
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> > > > would it matter if i had an older install of flex 2.4.4,
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> > > > I have a 15.15 AVR and the only thing i noticed was that the max freq sent to the AVR was 99.999Mhhz .... once 100Mhz was hit the freq sent to the AVR was 00.00 ... etc, 144.90Mhz was seen on PE0FKO's(CFGSDR ?? man still cant remember PE0FKO's avr setting program's called) as 44.90Mhz ...
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> > > > Dues to the fact that i have a dead display now makes it real tough to reproduce/test/change anything ..... for me to report.
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> > > > I can enter any freq in VFO A .... even 470Mhz ... but what it reported by CFGSDR is --- well i dont rememebr now .... if it was 70Mhz or what ..... i think ill go to the garage and haual it all inside to my wife's laptop (what im using right now)
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> > > > To: UHFSDR@yahoogroups.com
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> > > > From: sv1eia@
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> > > > Subject: [UHFSDR] Re: PowerDSR and UHFSDR ???
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> > > > If you go to the VFO-A and type 999, or with the roll of your mouse go up, does it show afterwards the frequency as shown here at 999MHz?
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> > > > -> http://groups.yahoo.com/group/UHFSDR/files/SV1EIA/999MHz.pdf
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> > > > can you make the VFO-A go at higher frequencies?
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> > > > If you can set high frequencies to VFO-A dial, then check with a frequency meter the LO output from your Si570.
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> > > > For VFO of 105 MHz it should have LO of 210MHz(-18KHz) at Si570's output and at VFO of 144MHz it should have 288MHz(-18KHz).
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> > > > As a remark, make sure that you have the proper Si570 grade attached on your ATTiny..
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> > > > --- In UHFSDR@yahoogroups.com, "bent_andersen@" wrote:
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> > > > > >Have you set it up according to instructions, exactly? YES.... first installe
the USB2I2c driver...then overwrite sdr1kusb.dll & powersdr.exe whit your new one.
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> > > > > > Have you started the application as SDR1000? YES
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> > > > > > Do you have the latest firmware in the ATTiny? (v15.15) so to have PE0FKO Command 0x32 support? Yes I have the last ATTiny v15,15
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> > > > > I can here the local FM-radio on 105mhz no problem...but it
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> > > > > wil not recive any signal on 144mhz ???

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> > > > > > Do you have the latest firmware in the ATTiny? (v15.15) so to have PE0FKO Command 0x32 support?
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> > > > > > I dont know why you cannot have the 999MHz shown, I guess there is something wrong in file replacement. You have to be able to see this VFO indication at least up to 999MHz by dialing directly on the VFO dial.
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> > > > > > -> http://groups.yahoo.com/group/UHFSDR/files/SV1EIA/999MHz.pdf
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http://groups.yahoo.com/group/powersdr-iq/files/PowerSDR_v2.4.4_Homebrew_Div2/
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1453. Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-06 09:03:31 UTC
From: sv1eia
Topic: 1417 Message: 1453

Tony,

Go to the cfgsr page
-> http://www.pe0fko.nl/CFGSR/
and look at the 'LO' tab.

It looks that you have placed multipliers there (probably X4), whereas as I said the firmware should treat incoming requests as X 1 with no IF since these are already handled by PSDR.

So most likely the firmware is multiplying the frequency by itself. You need to have 1 in 'Mutliply' and 0 in 'Offset' on the LO: Total.

73,
Christos SV1EIA

--- In UHFSDR@yahoogroups.com, "tony_g3ovh" wrote:
>
> Hi Mike
>
> I get something similar but for a more obvious reason - to receive on 4m (70MHz) I need to set the Rx frequency to 17.5MHz, so the s/w thinks it is in a non amateur band so wont let me transmit. I suppose it would have similar problem with filter selection when that's implemented.
>
> Tony
>
> --- In UHFSDR@...m, MIKE DURKIN wrote:
> >
> > still trying to verify Tx ....
> >
> > Iv got power now ... keep getting outofband Tx error .. blah blah .. something about the filtersetting regoin 0
> >
> > mike
> >
> > To: UHFSDR@yahoogroups.com
> > From: sv1eia@
> > Date: Tue, 5 Feb 2013 21:14:53 +0000
> > Subject: [UHFSDR] Re: PowerDSR and UHFSDR ???
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> > Can you verify this with an RF frequency counter on Si570's output?
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> > It looks that you have both PSDR and CFGSR accessing the device concurrently, that is not a good thing if of course you do it.
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> > Dont have anything else accessing the USB device appart from PSDR.
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> >
> > If you have the v15.15 then the X032 command is already included, you dont need to do anything.
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> >
> > --- In UHFSDR@yahoogroups.com, MIKE DURKIN wrote:
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> >
> > > ok, im using my wife's puter, win7 ...
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> > >
> >
> > > so to use this X32 support? .... I have firware 15.15 reported from
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> > > PE0FKO's build is 602 V2.06
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> > > Mike KC7NOA
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> >
> > > oh.. and yea.. when 447Mhz is in VFO A, PE0FKO shows 47Mhz .....
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> > >
> >
> > > To: UHFSDR@yahoogroups.com
> >
> > > From: sv1eia@
> >
> > > Date: Tue, 5 Feb 2013 20:59:46 +0000
> >
> > > Subject: [UHFSDR] Re: PowerDSR and UHFSDR ???
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> > > Ok, but I dont know how hdsdr is utilizing the fw, as I said I use its 0X32 direct frequency set command.
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> > > They might use the older Si570 register set which is a different method.
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> > > --- In UHFSDR@yahoogroups.com, MIKE DURKIN wrote:
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> > > > Sure .. can do .... but, with HDSDR, iv listened to my local 223.6Mhz trunk ..... on the same windows install.
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> > > > To: UHFSDR@yahoogroups.com
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> > > > From: sv1eia@
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> > > > Date: Tue, 5 Feb 2013 20:43:48 +0000
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> > > > Subject: [UHFSDR] Re: PowerDSR and UHFSDR ???
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> > > > That resembles behaviour of some older firmware where limitations to frequency existed.
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> > > > Double check your fw version.
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> > > > --- In UHFSDR@yahoogroups.com, MIKE DURKIN wrote:
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> > > > > would it matter if i had an older install of flex 2.4.4,
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> > > > > I have a 15.15 AVR and the only thing i noticed was that the max freq sent to the AVR was 99.999Mhhz .... once 100Mhz was hit the freq sent to the AVR was 00.00 ... etc, 144.90Mhz was seen on PE0FKO's(CFGSDR ?? man still cant remember PE0FKO's avr setting program's called) as 44.90Mhz ...
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> > > > > Dues to the fact that i have a dead display now makes it real tough to reproduce/test/change anything ..... for me to report.
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> > > > > I can enter any freq in VFO A .... even 470Mhz ... but what it reported by CFGSDR is --- well i dont rememebr now .... if it was 70Mhz or what ..... i think ill go to the garage and haual it all inside to my wife's laptop (what im using right now)
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> > > > > To: UHFSDR@yahoogroups.com
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> > > > > From: sv1eia@
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> > > > > Date: Tue, 5 Feb 2013 20:08:24 +0000
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> > > > > Subject: [UHFSDR] Re: PowerDSR and UHFSDR ???
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> > > > > If you go to the VFO-A and type 999, or with the roll of your mouse go up, does

it show afterwards the frequency as shown here at 999MHz?
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> > > > > -> http://groups.yahoo.com/group/UHFSDR/files/SV1EIA/999MHz.pdf
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> > > > > can you make the VFO-A go at higher frequencies?
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> > > > > If you can set high frequencies to VFO-A dial, then check with a frequency meter the LO output from your Si570.
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> > > > > For VFO of 105 MHz it should have LO of 210MHz(-18KHz) at Si570's output and at VFO of 144MHz it should have 288MHz(-18KHz).
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> > > > > As a remark, make sure that you have the proper Si570 grade attached on your ATTiny..
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> > > > > --- In UHFSDR@yahoogroups.com, "bent_andersen@" wrote:
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> > > > > > >Have you set it up according to instructions, exactly? YES.... first installe the USB2I2c driver...then overwrite sdr1kusb.dll & powersdr.exe whit your new one.
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> > > > > > > Have you started the application as SDR1000? YES
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> > > > > > > Do you have the latest firmware in the ATTiny? (v15.15) so to have PE0FKO Command 0x32 support? Yes I have the last ATTiny v15,15
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> > > > > > I can here the local FM-radio on 105mhz no problem...but it
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> > > > > > is there any "setup" in the SI570 I forgot ??
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> > > > > > --- In UHFSDR@yahoogroups.com, "sv1eia" wrote:
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> > > > > > > Have you started the application as SDR1000?
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> > > > > > > Do you have the latest firmware in the ATTiny? (v15.15) so to have PE0FKO Command 0x32 support?
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> > > > > > > I dont know why you cannot have the 999MHz shown, I guess there is something wrong in file replacement. You have to be able to see this VFO indication at least up to 999MHz by dialing directly on the VFO dial.
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> > > > > > > -> http://groups.yahoo.com/group/UHFSDR/files/SV1EIA/999MHz.pdf
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http://groups.yahoo.com/group/powersdr-iq/files/PowerSDR_v2.4.4_Homebrew_Div2/
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1454. Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-06 12:38:03 UTC
From: tony_g3ovh
Topic: 1417 Message: 1454

Hi Christos

I have played with those multipliers on the LO tab several times - they only affect the 'TUNE" tab, not PSDR. The LO Firmware entry shows Multiply 1 and Offset 0, but they are both greyed out and so are the Read and Save buttons. I have done a search for rogue copies of files which might be in use but hidden. Can you tell me which dll's are used by PSDR - I have copied across both ExtIO_Si570.dll and SRDLL.dll from the CFGSR folder into the PSDR v2.4.4. folder in the forlorn hope that they might be used. So far, whatever I do had had no effect on PSDR. The only anomaly I have found so far is that the CMDSR command line program doesn't change the Si570 frequency - it reports a USB error if CFGSR is open, and OK if CFGSR is closed, and correctly gives the firmware, V1.4, and correctly operates the PTT. However the -f command does not set the frequency (in Hz).
I'm not sure whether the above is relevant, but someone might like to comment.
The mystery continues!
Tony

--- In UHFSDR@yahoogroups.com, "sv1eia" wrote:
>
> Tony,
>
> Go to the cfgsr page
> -> http://www.pe0fko.nl/CFGSR/
> and look at the 'LO' tab.
>
> It looks that you have placed multipliers there (probably X4), whereas as I said the firmware should treat incoming requests as X 1 with no IF since these are already handled by PSDR.
>
> So most likely the firmware is multiplying the frequency by itself. You need to have 1 in 'Mutliply' and 0 in 'Offset' on the LO: Total.
>
> 73,
> Christos SV1EIA
>
>
> --- In UHFSDR@yahoogroups.com, "tony_g3ovh" wrote:
> >
> > Hi Mike
> >
> > I get something similar but for a more obvious reason - to receive on 4m (70MHz) I need to set the Rx frequency to 17.5MHz, so the s/w thinks it is in a non amateur band so wont let me transmit. I suppose it would have similar problem with filter selection when that's implemented.
> >
> > Tony

> >
> > --- In UHFSDR@yahoogroups.com, MIKE DURKIN wrote:
> > >
> > > still trying to verify Tx ....
> > >
> > > Iv got power now ... keep getting outofband Tx error .. blah blah .. something about the filtersetting regoin 0
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> > > mike
> > >

1455. Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-06 12:49:42 UTC
From: sv1eia
Topic: 1417 Message: 1455

Hi Tony,

The files you mention are not relevant..

Please go through the included .pdf file of the archive here
-> http://groups.yahoo.com/group/powersdr-iq/files/PowerSDR_v2.4.4_Homebrew_Div2/
and see specifically the step .3.
The relevant files are "Sdr1kUsb.dll" and "PowerSDR.exe".

Also, regarding your remarks on multiple apps concurrently accessing the device, as said many times, only one application has to do that at a single time.

--- In UHFSDR@yahoogroups.com, "tony_g3ovh" wrote:
>
> Hi Christos
>
> I have played with those multipliers on the LO tab several times - they only affect the 'TUNE" tab, not PSDR. The LO Firmware entry shows Multiply 1 and Offset 0, but they are both greyed out and so are the Read and Save buttons. I have done a search for rogue copies of files which might be in use but hidden. Can you tell me which dll's are used by PSDR - I have copied across both ExtIO_Si570.dll and SRDLL.dll from the CFGSR folder into the PSDR v2.4.4. folder in the forlorn hope that they might be used. So far, whatever I do had had no effect on PSDR. The only anomaly I have found so far is that the CMDSR command line program doesn't change the Si570 frequency - it reports a USB error if CFGSR is open, and OK if CFGSR is closed, and correctly gives the firmware, V1.4, and correctly operates the PTT. However the -f command does not set the frequency (in Hz).
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> > Tony,
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> > So most likely the firmware is multiplying the frequency by itself. You need to have 1 in 'Mutliply' and 0 in 'Offset' on the LO: Total.
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> > > Hi Mike
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> > > Tony
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> > > --- In UHFSDR@yahoogroups.com, MIKE DURKIN wrote:
> > > >
> > > > still trying to verify Tx ....
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> > > > Iv got power now ... keep getting outofband Tx error .. blah blah .. something about the filtersetting regoin 0
> > > >
> > > > mike
> > > >
>

1456. Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-06 13:38:15 UTC
From: tony_g3ovh
Topic: 1417 Message: 1456

Hi Christos

Can't get me with that one - I only put the extra files there as an experiment, and of course they made no difference. Please confirm that the 2 correct files are:

PowerSDR 4,684KB 03/02/2013 12:00
Sdr1kUsb.dll 89KB 03/02/2013 11:59

There are many other observations I made below about the way the PE0FKO system works - I could do some more debugging if someone could throw some light on how the code all fits together. The main thing I need to know is if the AVR code V1.4 is wrong for this application because the Read and Save buttons are greyed out on the LO tab of CFGSR.
If so, then, Christos please explain why the same USB interface works OK with PSDR-IQ v1.12.20

Tony

--- In UHFSDR@yahoogroups.com, "sv1eia" wrote:
>
> Hi Tony,
>
> The files you mention are not relevant..
>
> Please go through the included .pdf file of the archive here
> -> http://groups.yahoo.com/group/powersdr-iq/files/PowerSDR_v2.4.4_Homebrew_Div2/
> and see specifically the step .3.
> The relevant files are "Sdr1kUsb.dll" and "PowerSDR.exe".
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> Also, regarding your remarks on multiple apps concurrently accessing the device, as said many times, only one application has to do that at a single time.
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> --- In UHFSDR@yahoogroups.com, "tony_g3ovh" wrote:
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> > I have played with those multipliers on the LO tab several times - they only affect the 'TUNE" tab, not PSDR. The LO Firmware entry shows Multiply 1 and Offset 0, but they are both greyed out and so are the Read and Save buttons. I have done a search for rogue copies of files which might be in use but hidden. Can you tell me which dll's are used by PSDR - I have copied across both ExtIO_Si570.dll and SRDLL.dll from the CFGSR folder into the PSDR v2.4.4. folder in the forlorn hope that they might be used. So far, whatever I do had had no effect on PSDR. The only anomaly I have found so far is that the CMDSR command line program doesn't change the Si570 frequency - it reports a USB error if CFGSR is open, and OK if CFGSR is closed, and correctly gives the firmware, V1.4, and correctly operates the PTT. However the -f command does not set the frequency (in Hz).

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> > > 73,
> > > Christos SV1EIA
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> > > --- In UHFSDR@yahoogroups.com, "tony_g3ovh" wrote:
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> > > > Hi Mike
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> > > > > mike
> > > > >
> >
>

1457. Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-06 16:03:19 UTC
From: tony_g3ovh
Topic: 1417 Message: 1457

Hi Christos

A little more investigation:
If I use HDSDR and import ExtIO_Si570.dll into its working directory, then the CFGSR window pops up, and operating HDSDR tuning changes the Tune tab numbers. Then the DLL divide and offset in CFGSR can be used to get the correct frequency in the same way as if it were being operated from the Tune tab. In PSDR v2.4.4 div 2 you are not using this, but another DLL - presumably Sdr1kUsb over which CFGSR has no control. Therefore any divider config done from CFGSR is irrelevant - presumably only the cal is relevant because I believe its written back to the eeprom in the AVR. So I still dont understand how anything else in my system can be giving the X4 frequency error.

Tony

--- In UHFSDR@yahoogroups.com, "tony_g3ovh" wrote:
>
> Hi Christos
>
> Can't get me with that one - I only put the extra files there as an experiment, and of course they made no difference. Please confirm that the 2 correct files are:
>
> PowerSDR 4,684KB 03/02/2013 12:00
> Sdr1kUsb.dll 89KB 03/02/2013 11:59
>
> There are many other observations I made below about the way the PE0FKO system works - I could do some more debugging if someone could throw some light on how the code all fits together. The main thing I need to know is if the AVR code V1.4 is wrong for this application because the Read and Save buttons are greyed out on the LO tab of CFGSR.
> If so, then, Christos please explain why the same USB interface works OK with PSDR-IQ v1.12.20
>
> Tony
>
>
> --- In UHFSDR@yahoogroups.com, "sv1eia" wrote:
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> > Hi Tony,
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> > The files you mention are not relevant..
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> > Please go through the included .pdf file of the archive here
> > -> http://groups.yahoo.com/group/powersdr-iq/files/PowerSDR_v2.4.4_Homebrew_Div2/
> > and see specifically the step .3.
> > The relevant files are "Sdr1kUsb.dll" and "PowerSDR.exe".
> >
> > Also, regarding your remarks on multiple apps concurrently accessing the device, as

said many times, only one application has to do that at a single time.
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> > --- In UHFSDR@yahoogroups.com, "tony_g3ovh" wrote:
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> > > Hi Christos
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> > > I have played with those multipliers on the LO tab several times - they only affect the 'TUNE" tab, not PSDR. The LO Firmware entry shows Multiply 1 and Offset 0, but they are both greyed out and so are the Read and Save buttons. I have done a search for rogue copies of files which might be in use but hidden. Can you tell me which dll's are used by PSDR - I have copied across both ExtIO_Si570.dll and SRDLL.dll from the CFGSR folder into the PSDR v2.4.4. folder in the forlorn hope that they might be used. So far, whatever I do had had no effect on PSDR. The only anomaly I have found so far is that the CMDSR command line program doesn't change the Si570 frequency - it reports a USB error if CFGSR is open, and OK if CFGSR is closed, and correctly gives the firmware, V1.4, and correctly operates the PTT. However the -f command does not set the frequency (in Hz).
> > > I'm not sure whether the above is relevant, but someone might like to comment.
> > > The mystery continues!
> > > Tony
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> > > --- In UHFSDR@yahoogroups.com, "sv1eia" wrote:
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> > > > Go to the cfgsr page
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> > > > --- In UHFSDR@yahoogroups.com, "tony_g3ovh" wrote:
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> > > > > I get something similar but for a more obvious reason - to receive on 4m (70MHz) I need to set the Rx frequency to 17.5MHz, so the s/w thinks it is in a non amateur band so wont let me transmit. I suppose it would have similar problem with filter selection when that's implemented.
> > > > >
> > > > > Tony
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> > > > > --- In UHFSDR@yahoogroups.com, MIKE DURKIN wrote:
> > > > > >
> > > > > > still trying to verify Tx ....
> > > > > >
> > > > > > Iv got power now ... keep getting outofband Tx error .. blah blah .. something about the filtersetting regoin 0
> > > > > >
> > > > > > mike
> > > > > >
> > >
> >
>

1458. Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-07 07:18:21 UTC
From: sv1eia
Topic: 1417 Message: 1458

Tony,

I dont think that spending more time on a older firmware will give you anything new.
Just upgrade it and save the hasle, its so easy.

Regarding the files and programs you mention, dont mix them too much.
The situation is very simple, PSDR files have nothing to do with cfgsr files.
The cfgsr files are there only to utilize the ATTiny eeprom and write to it information that later on the ATTiny firmware will use to generate the actual frequency on Si570, either the calibration data or the multipliers and offset.

Aslo, there are two ways to request a frequency from the ATTiny firmware (user is not selecting this), one is by calculating the Si570 registers in application and send them 'raw' to the ATTiny firmware and the other is to specify directly the required frequency. In previous firmware versions there were some issues on how high the frequency could go, yet in the latest, specifically with the direct frequency request, the frequency can go up to 2GHz and that is why I advise you to upgrade.

In PSDR 1.12.x I was using mainly the 'raw' register data (although even that is 'translated' from the ATTiny firmware) whereas in 2.4.4 I prefer using the other new method of direct fequency (command 0x32) due to its high frequency support.

The new version for UHFSDR is nothing more code-wise than its Ensemble counterpart, just the X2 division and the range check of 999MHz.

So, bottom line, my recommendation, just upgrade the firmware which is so easy and some of your issues could be solved.

73,
Christos SV1EIA

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> Hi Christos
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> A little more investigation:
> If I use HDSDR and import ExtIO_Si570.dll into its working directory, then the CFGSR window pops up, and operating HDSDR tuning changes the Tune tab numbers. Then the DLL divide and offset in CFGSR can be used to get the correct frequency in the same way as if it were being operated from the Tune tab. In PSDR v2.4.4 div 2 you are not using this, but another DLL - presumably Sdr1kUsb over which CFGSR has no control. Therefore any divider config done from CFGSR is irrelevant - presumably only the cal is relevant because I believe its written back to the eeprom in the AVR. So I still dont understand how anything else in my system can be giving the X4 frequency error.
>
> Tony
>

> --- In UHFSDR@yahoogroups.com, "tony_g3ovh" wrote:
> >
> > Hi Christos
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> > Can't get me with that one - I only put the extra files there as an experiment, and of course they made no difference. Please confirm that the 2 correct files are:
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> > There are many other observations I made below about the way the PE0FKO system works - I could do some more debugging if someone could throw some light on how the code all fits together. The main thing I need to know is if the AVR code V1.4 is wrong for this application because the Read and Save buttons are greyed out on the LO tab of CFGSR.
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> > > > > > >
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> > >
> >
>

1459. Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-07 16:37:55 UTC
From: tony_g3ovh
Topic: 1417 Message: 1459

Hi Christos

Thanks for the advice. I didnt want to upgrade because I thought it was mainly for the additions for the Ensemble which I dont have. I dont have a means of reprogramming the device, and so far I have not been able to find a supplier selling the programmed chips. The links take you to either SDR-Kits or "Five Dash" who dont seem to be selling the programmed ATtiny 85 micro on its own. If anyone has a source, I would like to know. I'll try and get in touch with SDR-kits who I bought the original QRP2000 USB controller off.

Tony

--- In UHFSDR@yahoogroups.com, "sv1eia" wrote:
>
> Tony,
>
> I dont think that spending more time on a older firmware will give you anything new.
> Just upgrade it and save the hasle, its so easy.
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> Regarding the files and programs you mention, dont mix them too much.
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> In PSDR 1.12.x I was using mainly the 'raw' register data (although even that is 'translated' from the ATTiny firmware) whereas in 2.4.4 I prefer using the other new method of direct fequency (command 0x32) due to its high frequency support.
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> So, bottom line, my recommendation, just upgrade the firmware which is so easy and some of your issues could be solved.
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> --- In UHFSDR@yahoogroups.com, "tony_g3ovh" wrote:
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> > Tony
> >
> > --- In UHFSDR@yahoogroups.com, "tony_g3ovh" wrote:
> > >
> > > Hi Christos
> > >
> > > Can't get me with that one - I only put the extra files there as an experiment, and of course they made no difference. Please confirm that the 2 correct files are:
> > >
> > > PowerSDR 4,684KB 03/02/2013 12:00
> > > Sdr1kUsb.dll 89KB 03/02/2013 11:59
> > >
> > > There are many other observations I made below about the way the PE0FKO system works - I could do some more debugging if someone could throw some light on how the code all fits together. The main thing I need to know is if the AVR code V1.4 is wrong for this application because the Read and Save buttons are greyed out on the LO tab of CFGSR.
> > > If so, then, Christos please explain why the same USB interface works OK with PSDR-IQ v1.12.20
> > >
> > > Tony
> > >
> > >
> > > --- In UHFSDR@yahoogroups.com, "sv1eia" wrote:
> > > >
> > > > Hi Tony,
> > > >
> > > > The files you mention are not relevant..
> > > >
> > > > Please go through the included .pdf file of the archive here
> > > > -> http://groups.yahoo.com/group/powersdr-iq/files/PowerSDR_v2.4.4_Homebrew_Div2/
> > > > and see specifically the step .3.
> > > > The relevant files are "Sdr1kUsb.dll" and "PowerSDR.exe".
> > > >
> > > > Also, regarding your remarks on multiple apps concurrently accessing the device, as said many times, only one application has to do that at a single time.
> > > >

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> > > > > I'm not sure whether the above is relevant, but someone might like to comment.
> > > > > The mystery continues!
> > > > > Tony
> > > > >
> > > > > --- In UHFSDR@yahoogroups.com, "sv1eia" wrote:
> > > > > >
> > > > > > Tony,
> > > > > >
> > > > > > Go to the cfgsr page
> > > > > > -> http://www.pe0fko.nl/CFGSR/
> > > > > > and look at the 'LO' tab.
> > > > > >
> > > > > > It looks that you have placed multipliers there (probably X4), whereas as I said the firmware should treat incoming requests as X 1 with no IF since these are already handled by PSDR.
> > > > > >
> > > > > > So most likely the firmware is multiplying the frequency by itself. You need to have 1 in 'Mutliply' and 0 in 'Offset' on the LO: Total.
> > > > > >
> > > > > > 73,
> > > > > > Christos SV1EIA
> > > > > >
> > > > > >
> > > > > > --- In UHFSDR@yahoogroups.com, "tony_g3ovh" wrote:
> > > > > > >
> > > > > > > Hi Mike
> > > > > > >
> > > > > > > I get something similar but for a more obvious reason - to receive on 4m (70MHz) I need to set the Rx frequency to 17.5MHz, so the s/w thinks it is in a non amateur band so wont let me transmit. I suppose it would have similar problem with filter selection when that's implemented.
> > > > > > >
> > > > > > > Tony
> > > > > > >
> > > > > > > --- In UHFSDR@yahoogroups.com, MIKE DURKIN wrote:

> > > > > > > >
> > > > > > > > still trying to verify Tx ....
> > > > > > > >
> > > > > > > > Iv got power now ... keep getting outofband Tx error .. blah blah ..
something about the filtersetting regoin 0
> > > > > > > >
> > > > > > > > mike
> > > > > > > > >
> > > > > >
> > > > >
> > >
> >
>

1460. Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-02-07 17:24:45 UTC
From: sv1eia
Topic: 1417 Message: 1460

Tony,

On Fred's page here
-> http://pe0fko.nl/SR-V9-Si570/#upgrade
is mentioned how to do it or where to buy a pre-programmed one
-> http://www.thepartsplace.k5nwa.com/index.php?route=product/product&path=39_43&product_id=53

73,
Christos SV1EIA

--- In UHFSDR@yahoogroups.com, "tony_g3ovh" wrote:
>
> Hi Christos
>
> Thanks for the advice. I didnt want to upgrade because I thought it was mainly for the additions for the Ensemble which I dont have. I dont have a means of reprogramming the device, and so far I have not been able to find a supplier selling the programmed chips. The links take you to either SDR-Kits or "Five Dash" who dont seem to be selling the programmed ATtiny 85 micro on its own. If anyone has a source, I would like to know.
> I'll try and get in touch with SDR-kits who I bought the original QRP2000 USB controller off.
>
> Tony
>
> --- In UHFSDR@...m, "sv1eia" wrote:
> >
> > Tony,
> >
> > I dont think that spending more time on a older firmware will give you anything new.
> > Just upgrade it and save the hasle, its so easy.
> >
> > Regarding the files and programs you mention, dont mix them too much.
> > The situation is very simple, PSDR files have nothing to do with cfgsr files.
> > The cfgsr files are there only to utilize the ATTiny eeprom and write to it information that later on the ATTiny firmware will use to generate the actual frequency on Si570, either the calibration data or the multipliers and offset.
> >
> > Aslo, there are two ways to request a frequency from the ATTiny firmware (user is not selecting this), one is by calculating the Si570 registers in application and send them 'raw' to the ATTiny firmware and the other is to specify directly the required frequency.
> > In previous firmware versions there were some issues on how high the frequency could go, yet in the latest, specifically with the direct frequency request, the frequency can go up to 2GHz and that is why I advise you to upgrade.
> >
> > In PSDR 1.12.x I was using mainly the 'raw' register data (although even that is

'translated' from the ATTiny firmware) whereas in 2.4.4 I prefer using the other new method of direct fequency (command 0x32) due to its high frequency support.
> >
> > The new version for UHFSDR is nothing more code-wise than its Ensemble counterpart, just the X2 division and the range check of 999MHz.
> >
> > So, bottom line, my recommendation, just upgrade the firmware which is so easy and some of your issues could be solved.
> >
> > 73,
> > Christos SV1EIA
> >
> >
> > --- In UHFSDR@yahoogroups.com, "tony_g3ovh" wrote:
> > >
> > > Hi Christos
> > >
> > > A little more investigation:
> > > If I use HDSDR and import ExtIO_Si570.dll into its working directory, then the CFGSR window pops up, and operating HDSDR tuning changes the Tune tab numbers. Then the DLL divide and offset in CFGSR can be used to get the correct frequency in the same way as if it were being operated from the Tune tab. In PSDR v2.4.4 div 2 you are not using this, but another DLL - presumably Sdr1kUsb over which CFGSR has no control. Therefore any divider config done from CFGSR is irrelevant - presumably only the cal is relevant because I believe its written back to the eeprom in the AVR. So I still dont understand how anything else in my system can be giving the X4 frequency error.
> > >
> > > Tony
> > >
> > > --- In UHFSDR@yahoogroups.com, "tony_g3ovh" wrote:
> > > >
> > > > Hi Christos
> > > >
> > > > Can't get me with that one - I only put the extra files there as an experiment, and of course they made no difference. Please confirm that the 2 correct files are:
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> > > > PowerSDR 4,684KB 03/02/2013 12:00
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> > > > There are many other observations I made below about the way the PE0FKO system works - I could do some more debugging if someone could throw some light on how the code all fits together. The main thing I need to know is if the AVR code V1.4 is wrong for this application because the Read and Save buttons are greyed out on the LO tab of CFGSR.
> > > > If so, then, Christos please explain why the same USB interface works OK with PSDR-IQ v1.12.20
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> > > > Tony
> > > >
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> > > > > Hi Tony,
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> > > > > The files you mention are not relevant..
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http://groups.yahoo.com/group/powersdr-iq/files/PowerSDR_v2.4.4_Homebrew_Div2/
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> > > > > The relevant files are "Sdr1kUsb.dll" and "PowerSDR.exe".
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> > > > > > > It looks that you have placed multipliers there (probably X4), whereas as I said the firmware should treat incoming requests as X 1 with no IF since these are already handled by PSDR.
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> > > > > > > So most likely the firmware is multiplying the frequency by itself. You need to have 1 in 'Mutliply' and 0 in 'Offset' on the LO: Total.
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> > > > > > > > > Tony
> > > > > > > > >
> > > > > > > > > --- In UHFSDR@yahoogroups.com, MIKE DURKIN wrote:
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> > > > > > > > > > still trying to verify Tx ....
> > > > > > > > > >
> > > > > > > > > > Iv got power now ... keep getting outofband Tx error .. blah blah .. something about the filtersetting regoin 0
> > > > > > > > > >
> > > > > > > > > > mike
> > > > > > > > > >
> > > > > > > >
> > > > > >
> > > > >
> > >
>

1461. Price increase for DX

Yahoo group: UHFSDR
Date: 2013-02-09 03:28:14 UTC
From: brainerdd
Topic: 1461 Message: 1461

The latest Post Office price increase increased the shipping cost of my padded envelopes to outside of USA from $3.50 to $6.55!! The price for inside USA only increased from $1.64 to $1.69. As a result, I increased prices on all items by $3 to outside of USA shipping addresses.

Dave - WB6DHW
<http://wb6dhw.com>

1462. Re: [UHFSDR] Price increase for DX

Yahoo group: UHFSDR
Date: 2013-02-09 05:04:22 UTC
From: Alan Hill
Topic: 1461 Message: 1462

I had about the same increase. I vigorously complained to the post office about the major unannounced increase and they told me that it was too bad. If I didn't like it then use another carrier.
73,
Alan - W6ARH

On Fri, Feb 8, 2013 at 7:28 PM, brainerdd <dave@...> wrote:

> **
>
>
> The latest Post Office price increase increased the shipping cost of my
> padded envelopes to outside of USA from $3.50 to $6.55!! The price for
> inside USA only increased from $1.64 to $1.69. As a result, I increased
> prices on all items by $3 to outside of USA shipping addresses.
>
> Dave - WB6DHW
> http://wb6dhw.com>
>
>
>

1463. Re: [UHFSDR] Price increase for DX

Yahoo group: UHFSDR
Date: 2013-02-09 14:34:28 UTC
From: Sid Boyce
Topic: 1461 Message: 1463

That small increase shouldn't deter anyone who is serious. FEDEX and UPS prices are way over the top, so the alternatives are not viable at $60.00+.

Digikey, etc. insist on using FEDEX and UPS so when I need a few dollars worth of parts I have relations order them and post via USPS.

For us Customs look at the items cost + shipping and base duty on that figure.

Ordering from some companies in China, FEDEX and UPS are the default but I get them to use Hong Kong post which works out very cheap and it's also fast.
73 ... Sid.

On 09/02/13 05:04, Alan Hill wrote:
> I had about the same increase. I vigorously complained to the post
> office about the major unannounced increase and they told me that it
> was too bad. If I didn't like it then use another carrier.
> 73,
> Alan - W6ARH
>
>
>
> On Fri, Feb 8, 2013 at 7:28 PM, brainerdd <dave@...
> <mailto:dave@...>> wrote:
>
> The latest Post Office price increase increased the shipping cost
> of my padded envelopes to outside of USA from $3.50 to $6.55!! The
> price for inside USA only increased from $1.64 to $1.69. As a
> result, I increased prices on all items by $3 to outside of USA
> shipping addresses.
>
> Dave - WB6DHW
> http://wb6dhw.com>
>
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1464. Software Defined Radio receive test @ 10.368GHz

Yahoo group: UHFSDR
Date: 2013-02-13 14:37:17 UTC
From: Kostas Ioannidis
Topic: 1464 Message: 1464

Receive test of a temporary beacon located about 17km away has been achieved. A homebrew software defined radio (based on the UHFSDR and USB2SDR boards) was used as an IF radio for the VK3XDK X band transverter kit. The test's objective was to evaluate the practical usability (read: Is the screen visible? :) of an SDR on a mountaintop. Overall it was successful with the humble eeepc900 (marginally) getting the job done!

Homebrew SDR info:
http://sv1ixp.wordpress.com/homebrew-hfvu-sdr/<https://rapidshare.com/files/1156263032/My%20SDR.pdf>
Video link:
http://www.youtube.com/watch?v=u4UuZWe2Q4s<http://www.youtube.com/watch?v=VnAI1H0s6gU>

Transverter: http://sv1ixp.wordpress.com/10ghz-transverter/

73 de SV1IXP

UHFSDR + USB2SDR + BPF/LPF + 100WPA HF/VHF/UHF

1465. Re: [UHFSDR] Software Defined Radio receive test @ 10.368GHz

Yahoo group: UHFSDR
Date: 2013-02-13 14:52:00 UTC
From: Geoff Blake
Topic: 1464 Message: 1465

Hi Kostas,

It seems (to me at least) that the PDF is restricted access.

73 Geoff G8GNZ

On 13 February 2013 14:37, Kostas Ioannidis <kostas.ioannidis@...>wrote:

>
>
> Receive test of a temporary beacon located about 17km away has been
> achieved. A homebrew software defined radio (based on the UHFSDR and
> USB2SDR boards) was used as an IF radio for the VK3XDK X band transverter
> kit. The test's objective was to evaluate the practical usability (read: Is
> the screen visible? :) of an SDR on a mountaintop. Overall it was
> successful with the humble eeepc900 (marginally) getting the job done!
>
>
> Homebrew SDR info: http://sv1ixp.wordpress.com/homebrew-hfvu-sdr/<https://rapidshare.com
/files/1156263032/My%20SDR.pdf>
> Video link:
http://www.youtube.com/watch?v=u4UuZWe2Q4s<http://www.youtube.com/watch?v=VnAI1H0s6gU>
>
> Transverter: http://sv1ixp.wordpress.com/10ghz-transverter/
>
>
> 73 de SV1IXP
>
> ---
> UHFSDR + USB2SDR + BPF/LPF + 100WPA HF/VHF/UHF
>
>
>

--
##
Geoff Blake, G8GNZ JO01fq: Chelmsford, Essex, UK
<geoff@...> or <melecerties@...>
Using Linux: Ubuntu 11.04 on Intel or Debian on UltraSparc
and Apple OS X 10.8.2 Mountain Lion on my Macbook Pro.
Avoiding Micro$oft like the plague.
##

1466. RE: [UHFSDR] Software Defined Radio receive test @ 10.368GHz

Yahoo group: UHFSDR
Date: 2013-02-13 17:00:07 UTC
From: MIKE DURKIN
Topic: 1464 Message: 1466

yep .. verified .. or you accidently put the wrong link in the body of the text ....

http://sv1ixp.wordpress.com/homebrew-hfvu-sdr/
goes to a dropbox account?? i think it was ...

but if you just copy paste the address .... stripping off the embedded link ... it works ...

Mike KC7NOA .....

To: UHFSDR@yahoogroups.com
From: geoff@...
Date: Wed, 13 Feb 2013 14:52:00 +0000
Subject: Re: [UHFSDR] Software Defined Radio receive test @ 10.368GHz

Hi Kostas,
It seems (to me at least) that the PDF is restricted access.
73 Geoff G8GNZ

On 13 February 2013 14:37, Kostas Ioannidis <kostas.ioannidis@...> wrote:

Receive test of a
temporary beacon located about 17km away has been achieved. A homebrew software defined radio (based on the UHFSDR and USB2SDR boards) was used as an IF radio for the VK3XDK X band transverter kit. The test's objective was to evaluate the practical usability (read: Is the screen visible? :) of an SDR on a mountaintop. Overall it was successful with the humble eeepc900 (marginally) getting the job done!

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Video link: http://www.youtube.com/watch?v=u4UuZWe2Q4s

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73 de SV1IXP

UHFSDR + USB2SDR + BPF/LPF + 100WPA HF/VHF/UHF

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Geoff Blake, G8GNZ JO01fq: Chelmsford, Essex, UK
<geoff@...> or <melecerties@...>

Using Linux: Ubuntu 11.04 on Intel or Debian on UltraSparc
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###

1467. RE: [UHFSDR] Software Defined Radio receive test @ 10.368GHz

Yahoo group: UHFSDR
Date: 2013-02-13 17:16:07 UTC
From: MIKE DURKIN
Topic: 1464 Message: 1467

Ahhh .. i see , yea the Rapidshare is restricted to owner only ...

To: uhfsdr@yahoogroups.com
From: Patriot121@...
Date: Wed, 13 Feb 2013 09:00:07 -0800
Subject: RE: [UHFSDR] Software Defined Radio receive test @ 10.368GHz

yep .. verified .. or you accidently put the wrong link in the body of the text ....

http://sv1ixp.wordpress.com/homebrew-hfvu-sdr/
goes to a dropbox account?? i think it was ...

but if you just copy paste the address .... stripping off the embedded link ... it works ...

Mike KC7NOA .....

To: UHFSDR@yahoogroups.com
From: geoff@...
Date: Wed, 13 Feb 2013 14:52:00 +0000
Subject: Re: [UHFSDR] Software Defined Radio receive test @ 10.368GHz

Hi Kostas,

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73 Geoff G8GNZ

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UHFSDR + USB2SDR + BPF/LPF + 100WPA HF/VHF/UHF

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Geoff Blake, G8GNZ JO01fq: Chelmsford, Essex, UK
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Using Linux: Ubuntu 11.04 on Intel or Debian on UltraSparc
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##

1468. RE: [UHFSDR] Software Defined Radio receive test @ 10.368GHz

Yahoo group: UHFSDR
Date: 2013-02-13 17:19:14 UTC
From: MIKE DURKIN
Topic: 1464 Message: 1468

So .. ok guess the UHFSDR would be more bulky than a 817 ....
I plan on having a 5"tft on mine ... and hopefully will be able to see a full 96Khz bandwidth at one time ...

Im still trying to workout FM problems (im not using an intel CPU -- might be forced to go that route yet)

Mike KC7NOA

To: uhfsdr@yahoogroups.com
From: Patriot121@...
Date: Wed, 13 Feb 2013 09:00:07 -0800
Subject: RE: [UHFSDR] Software Defined Radio receive test @ 10.368GHz

yep .. verified .. or you accidently put the wrong link in the body of the text ....

http://sv1ixp.wordpress.com/homebrew-hfvu-sdr/
goes to a dropbox account?? i think it was ...

but if you just copy paste the address .... stripping off the embedded link ... it works ...

Mike KC7NOA .....

To: UHFSDR@yahoogroups.com
From: geoff@...
Date: Wed, 13 Feb 2013 14:52:00 +0000
Subject: Re: [UHFSDR] Software Defined Radio receive test @ 10.368GHz

Hi Kostas,

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On 13 February 2013 14:37, Kostas Ioannidis <kostas.ioannidis@...> wrote:

Receive test of a
temporary beacon located about 17km away has been achieved. A homebrew software defined radio (based on the UHFSDR and USB2SDR boards) was used as an IF radio for the VK3XDK X band transverter kit. The test's objective was to evaluate the practical usability (read: Is the screen visible? :) of an SDR on a mountaintop. Overall it was successful with the humble eeepc900 (marginally) getting the job done!

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73 de SV1IXP

UHFSDR + USB2SDR + BPF/LPF + 100WPA HF/VHF/UHF

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Geoff Blake, G8GNZ JO01fq: Chelmsford, Essex, UK
<geoff@...> or <melecerties@gmail.com>

Using Linux: Ubuntu 11.04 on Intel or Debian on UltraSparc
and Apple OS X 10.8.2 Mountain Lion on my Macbook Pro.
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1469. Re: [UHFSDR] Software Defined Radio receive test @ 10.368GHz

Yahoo group: UHFSDR
Date: 2013-02-13 20:40:53 UTC
From: Kostas Ioannidis
Topic: 1464 Message: 1469

Hi all!

Try again they should work now...

73 de SV1IXP

UHFSDR + USB2SDR + BPF/LPF + 100WPA HF/VHF/UHF

On Wed, Feb 13, 2013 at 7:19 PM, MIKE DURKIN <Patriot121@...> wrote:

> **
>
>
> So .. ok guess the UHFSDR would be more bulky than a 817 ....
> I plan on having a 5"tft on mine ... and hopefully will be able to see a
> full 96Khz bandwidth at one time ...
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> Im still trying to workout FM problems (im not using an intel CPU -- might
> be forced to go that route yet)
>
> Mike KC7NOA
>
> ---
> To: uhfsdr@yahoogroups.com
> From: Patriot121@...
> Date: Wed, 13 Feb 2013 09:00:07 -0800
> Subject: RE: [UHFSDR] Software Defined Radio receive test @ 10.368GHz
>
>
>
>
> yep .. verified .. or you accidently put the wrong link in the body of the
> text ....
>
> http://sv1ixp.wordpress.com/homebrew-hfvu-sdr/<https://rapidshare.com/files/1156263032/My%20SDR.pdf>
> goes to a dropbox account?? i think it was ...
>
> but if you just copy paste the address .... stripping off the embedded
> link ... it works ...
>
> Mike KC7NOA .....
>
> ---
> To: UHFSDR@yahoogroups.com
> From: geoff@...

> Date: Wed, 13 Feb 2013 14:52:00 +0000
> Subject: Re: [UHFSDR] Software Defined Radio receive test @ 10.368GHz
>
>
> Hi Kostas,
>
> It seems (to me at least) that the PDF is restricted access.
>
> 73 Geoff G8GNZ
>
> On 13 February 2013 14:37, Kostas Ioannidis <kostas.ioannidis@...>wrote:
>
>
>
> Receive test of a temporary beacon located about 17km away has been
> achieved. A homebrew software defined radio (based on the UHFSDR and
> USB2SDR boards) was used as an IF radio for the VK3XDK X band transverter
> kit. The test's objective was to evaluate the practical usability (read: Is
> the screen visible? :) of an SDR on a mountaintop. Overall it was
> successful with the humble eeepc900 (marginally) getting the job done!
>
>
> Homebrew SDR info: http://sv1ixp.wordpress.com/homebrew-hfvu-sdr/<https://rapidshare.com
/files/1156263032/My%20SDR.pdf>
> Video link:
http://www.youtube.com/watch?v=u4UuZWe2Q4s<http://www.youtube.com/watch?v=VnAI1H0s6gU>
>
> Transverter: http://sv1ixp.wordpress.com/10ghz-transverter/
>
>
> 73 de SV1IXP
>
> ---
> UHFSDR + USB2SDR + BPF/LPF + 100WPA HF/VHF/UHF
>
>
>
>
>
> --
> ##
> Geoff Blake, G8GNZ JO01fq: Chelmsford, Essex, UK
> <geoff@...> or <melecerties@...>
> Using Linux: Ubuntu 11.04 on Intel or Debian on UltraSparc
> and Apple OS X 10.8.2 Mountain Lion on my Macbook Pro.
> Avoiding Micro$oft like the plague.
> ##
>
>
>

>

1470. Build of older kit?

Yahoo group: UHFSDR
Date: 2013-02-13 20:58:46 UTC
From: Ron
Topic: 1470 Message: 1470

I'm just now getting around to building the UHFSDR kit I purchased many months ago. I'm sure this doesn't matter that much but the kit came with 2 10uF caps that are marked as HV on the parts "strip". Neither the build instructions nor the BOM differentiates any of the 10uF caps, at least that I've been able to see.

So where to these two caps go? My guess is c32 and c39.

Ron

1471. RE: [UHFSDR] Software Defined Radio receive test @ 10.368GHz

Yahoo group: UHFSDR
Date: 2013-02-13 21:30:05 UTC
From: MIKE DURKIN
Topic: 1464 Message: 1471

Ok .. working ...

To: UHFSDR@yahoogroups.com
From: kostas.ioannidis@gmail.com
Date: Wed, 13 Feb 2013 22:40:53 +0200
Subject: Re: [UHFSDR] Software Defined Radio receive test @ 10.368GHz

Hi all!

Try again they should work now...

73 de SV1IXP

UHFSDR + USB2SDR + BPF/LPF + 100WPA HF/VHF/UHF

On Wed, Feb 13, 2013 at 7:19 PM, MIKE DURKIN <Patriot121@...> wrote:

So .. ok guess the UHFSDR would be more bulky than a 817 ....
I plan on having a 5"tft on mine ... and hopefully will be able to see a full 96Khz bandwidth at one time ...

Im still trying to workout FM problems (im not using an intel CPU -- might be forced to go that route yet)

Mike KC7NOA

To: uhfsdr@yahoogroups.com
From: Patriot121@...

Date: Wed, 13 Feb 2013 09:00:07 -0800
Subject: RE: [UHFSDR] Software Defined Radio receive test @ 10.368GHz

yep .. verified .. or you accidently put the wrong link in the body of the text ....

http://sv1ixp.wordpress.com/homebrew-hfvu-sdr/

goes to a dropbox account?? i think it was ...

but if you just copy paste the address .... stripping off the embedded link ... it works ...

Mike KC7NOA .....

To: UHFSDR@yahoogroups.com

From: geoff@...
Date: Wed, 13 Feb 2013 14:52:00 +0000
Subject: Re: [UHFSDR] Software Defined Radio receive test @ 10.368GHz

Hi Kostas,

It seems (to me at least) that the PDF is restricted access.
73 Geoff G8GNZ

On 13 February 2013 14:37, Kostas Ioannidis <kostas.ioannidis@gmail.com> wrote:

Receive test of a
temporary beacon located about 17km away has been achieved. A homebrew software defined radio (based on the UHFSDR and USB2SDR boards) was used as an IF radio for the VK3XDK X band transverter kit. The test's objective was to evaluate the practical usability (read: Is the screen visible? :) of an SDR on a mountaintop. Overall it was successful with the humble eeepc900 (marginally) getting the job done!

Homebrew SDR info: http://sv1ixp.wordpress.com/homebrew-hfvu-sdr/

Video link: http://www.youtube.com/watch?v=u4UuZWe2Q4s

Transverter: http://sv1ixp.wordpress.com/10ghz-transverter/

73 de SV1IXP

UHFSDR + USB2SDR + BPF/LPF + 100WPA HF/VHF/UHF

--
##
Geoff Blake, G8GNZ JO01fq: Chelmsford, Essex, UK
<geoff@palaemon.co.uk> or <melecerties@...>

Using Linux: Ubuntu 11.04 on Intel or Debian on UltraSparc
and Apple OS X 10.8.2 Mountain Lion on my Macbook Pro.
Avoiding Micro$oft like the plague.
##

1472. Re: [UHFSDR] Build of older kit?

Yahoo group: UHFSDR
Date: 2013-02-14 01:41:31 UTC
From: Dave
Topic: 1470 Message: 1472

C2 and C39 are the 2. They have the 12V(13.8V) input across them.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/13/2013 12:58 PM, Ron wrote:
>
> I'm just now getting around to building the UHFSDR kit I purchased
> many months ago. I'm sure this doesn't matter that much but the kit
> came with 2 10uF caps that are marked as HV on the parts "strip".
> Neither the build instructions nor the BOM differentiates any of the
> 10uF caps, at least that I've been able to see.
>
> So where to these two caps go? My guess is c32 and c39.
>
> Ron
>
>

1473. Re: Build of older kit?

Yahoo group: UHFSDR
Date: 2013-02-14 01:50:56 UTC
From: Ron
Topic: 1470 Message: 1473

Thanks Dave. Yeah, I meant c2, not c32.

Fat fingered Ron

--- In UHFSDR@yahoogroups.com, Dave wrote:
>
> C2 and C39 are the 2. They have the 12V(13.8V) input across them.
>
> Dave - WB6DHW
>
>
> On 2/13/2013 12:58 PM, Ron wrote:
> >
> > I'm just now getting around to building the UHFSDR kit I purchased
> > many months ago. I'm sure this doesn't matter that much but the kit
> > came with 2 10uF caps that are marked as HV on the parts "strip".
> > Neither the build instructions nor the BOM differentiates any of the
> > 10uF caps, at least that I've been able to see.
> >
> > So where to these two caps go? My guess is c32 and c39.
> >
> > Ron
> >
> >
>

1474. UHFSDR + Powersdr 2.44 div2 + ATTiny v15.12 &v v15.15

Yahoo group: UHFSDR
Date: 2013-02-18 05:45:00 UTC
From: bent_andersen@ymail.com
Topic: 1474 Message: 1474

Hi all

I have now try to get the sdr running and have now try 2 version of the ATTiny version v15.15 & v15.12 and I can get the v15.12 to go up to 200mhz the it stop. the v15.15 is going up to 142mhz then it stop.

you can try to look on this 2 video I have uploaded to my web.

http://oz1ct.dk/download/video-15-15.mp4

http://oz1ct.dk/download/video-15-12.mp4

OZ1CT Bent

1475. RE: [UHFSDR] UHFSDR + Powersdr 2.44 div2 + ATTiny v15.12 &v v15.15

Yahoo group: UHFSDR
Date: 2013-02-18 05:52:07 UTC
From: MIKE DURKIN
Topic: 1474 Message: 1475

Silly question ... what Si570 are you using?? Grade "A" that goes to 1.4Ghz?? "B" that goes to 800Mhz ??

To: UHFSDR@yahoogroups.com
From: eskolin@gmail.com
Date: Mon, 18 Feb 2013 05:45:00 +0000
Subject: [UHFSDR] UHFSDR + Powersdr 2.44 div2 + ATTiny v15.12 &v v15.15

Hi all

I have now try to get the sdr running and have now try 2 version of

the ATTiny version v15.15 & v15.12 and I can get the v15.12 to go up

to 200mhz the it stop. the v15.15 is going up to 142mhz then it stop.

you can try to look on this 2 video I have uploaded to my web.

http://oz1ct.dk/download/video-15-15.mp4

http://oz1ct.dk/download/video-15-12.mp4

OZ1CT Bent

1476. RE: [UHFSDR] UHFSDR + Powersdr 2.44 div2 + ATTiny v15.12 &v v15.15

Yahoo group: UHFSDR
Date: 2013-02-18 05:56:41 UTC
From: MIKE DURKIN
Topic: 1474 Message: 1476

never mind .. see it was silly .. cant get to 400Mhz with a class "C" .....

To: uhfsdr@yahoogroups.com
From: Patriot121@...
Date: Sun, 17 Feb 2013 21:52:07 -0800
Subject: RE: [UHFSDR] UHFSDR + Powersdr 2.44 div2 + ATTiny v15.12 &v v15.15

Silly question ... what Si570 are you using?? Grade "A" that goes to 1.4Ghz?? "B" that goes to 800Mhz ??

To: UHFSDR@yahoogroups.com
From: eskolin@gmail.com
Date: Mon, 18 Feb 2013 05:45:00 +0000
Subject: [UHFSDR] UHFSDR + Powersdr 2.44 div2 + ATTiny v15.12 &v v15.15

Hi all

I have now try to get the sdr running and have now try 2 version of

the ATTiny version v15.15 & v15.12 and I can get the v15.12 to go up

to 200mhz the it stop. the v15.15 is going up to 142mhz then it stop.

you can try to look on this 2 video I have uploaded to my web.

http://oz1ct.dk/download/video-15-15.mp4

http://oz1ct.dk/download/video-15-12.mp4

OZ1CT Bent

1477. Re: UHFSDR + Powersdr 2.44 div2 + ATTiny v15.12 &v v15.15

Yahoo group: UHFSDR
Date: 2013-02-18 07:38:39 UTC
From: sv1eia
Topic: 1474 Message: 1477

Hi Bent,

Nice catch.

As I said I use the 0x32 PE0FKO firmware command, so it might be something there that gives us trouble.
I hope that Fred could see to that too.

Otherwise I'll implement a new Div2 version without using the 0x32 firmware command.

73,
Christos SV1EIA

--- In UHFSDR@yahoogroups.com, "bent_andersen@..." <eskolin@...> wrote:
>
>
> Hi all
>
> I have now try to get the sdr running and have now try 2 version of
> the ATTiny version v15.15 & v15.12 and I can get the v15.12 to go up
> to 200mhz the it stop. the v15.15 is going up to 142mhz then it stop.
>
> you can try to look on this 2 video I have uploaded to my web.
>
> http://oz1ct.dk/download/video-15-15.mp4
>
> http://oz1ct.dk/download/video-15-12.mp4
>
> OZ1CT Bent
>

1478. Re: UHFSDR + Powersdr 2.44 div2 + ATTiny v15.12 &v v15.15

Yahoo group: UHFSDR
Date: 2013-02-18 09:26:09 UTC
From: Bent Andersen
Topic: 1474 Message: 1478

I use the version that go to 810mhz

Bent

1479. UHFSDR + Powersdr + ATTiny chip

Yahoo group: UHFSDR
Date: 2013-02-24 13:19:21 UTC
From: bent_andersen@ymail.com
Topic: 1479 Message: 1479

hi all
is there anyone who uses their UHFSDR + PowerSDR + ATtiny chip
at 144MHz or 432MHz who can inform what versions they use???

so that I can get my SDR up and running ....

thank you in advance .... OZ1CT Bent

1480. RE: [UHFSDR] UHFSDR + Powersdr + ATTiny chip

Yahoo group: UHFSDR
Date: 2013-02-24 15:28:06 UTC
From: MIKE DURKIN
Topic: 1479 Message: 1480

Iv used AtTiny and UHFSDR with HDSDR at 2m & 70cm .... iv not really liked PowerSDR.
I dont use it much because im still outputing only 80mW ...

Still trying to decide ona design to get to 500mW~1W ...

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: eskolin@...
Date: Sun, 24 Feb 2013 13:19:21 +0000
Subject: [UHFSDR] UHFSDR + Powersdr + ATTiny chip

hi all

is there anyone who uses their UHFSDR + PowerSDR + ATtiny chip

at 144MHz or 432MHz who can inform what versions they use???

so that I can get my SDR up and running ....

thank you in advance .... OZ1CT Bent

1481. Re: [UHFSDR] UHFSDR + Powersdr + ATTiny chip

Yahoo group: UHFSDR
Date: 2013-02-24 19:43:32 UTC
From: Dave
Topic: 1479 Message: 1481

Bent:
I have only used my UHFSDR on an old Thinkpad with a parallel interface. I used PowerSDR-IQ v1.12.20 at <http://code.google.com/p/powersdr-iq/downloads/detail?name=PowerSDR-IQ%20v1.12.20%20Setup.msi&can=2&q=>. PowerSDRv2.4.4_for_Homemade_Rigs <http://code.google.com/p/powersdr-iq/downloads/detail?name=PowerSDRv2.4.4_for_Homemade_Rigs.zip&can=2&q=>should work, but I haven't tried it.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/24/2013 5:19 AM, bent_andersen@... wrote:
>
> hi all
> is there anyone who uses their UHFSDR + PowerSDR + ATtiny chip
> at 144MHz or 432MHz who can inform what versions they use???
>
> so that I can get my SDR up and running ....
>
> thank you in advance .... OZ1CT Bent
>
> _
>
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>

1482. Re: UHFSDR + Powersdr + ATTiny chip

Yahoo group: UHFSDR
Date: 2013-02-24 20:10:17 UTC
From: bent_andersen@ymail.com
Topic: 1479 Message: 1482

HI Dave

I have now try Powersdr 2.4.4div2 and it works whit a ATTiny v 15.12 interface up to 144mhz but I need also the 432mhz...

the next is I am running win7-64 and I dont think Power-sdr 1.12.2
will run....

... I have also a USB2SDR soundcard and under this, there is no problem...it just run, the only problem whit this usb-sound card is that I cant get the I/Q signal out to my ASIO soundcard and the again in to MAP65 (jt65 program)(I will use my sdr to EME on 144mhz)

so I think the problem is the ATTiny chip...

any Idea wath to do ???

Bent

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> Bent:
> I have only used my UHFSDR on an old Thinkpad with a parallel
> interface. I used PowerSDR-IQ v1.12.20 at
> <http://code.google.com/p/powersdr-iq/downloads/detail?name=PowerSDR-IQ%20v1.12.20%20Setup.msi&can=2&q=>. PowerSDRv2.4.4_for_Homemade_Rigs <http://code.google.com/p/powersdr-iq/downloads/detail?name=PowerSDRv2.4.4_for_Homemade_Rigs.zip&can=2&q=>should work, but I haven't tried it.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 2/24/2013 5:19 AM, bent_andersen@... wrote:
> >
> > hi all
> > is there anyone who uses their UHFSDR + PowerSDR + ATtiny chip
> > at 144MHz or 432MHz who can inform what versions they use???
> >
> > so that I can get my SDR up and running ....
> >
> > thank you in advance .... OZ1CT Bent
> >
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> >
>

1483. Re: UHFSDR + Powersdr + ATTiny chip

Yahoo group: UHFSDR
Date: 2013-02-24 20:13:29 UTC
From: bent_andersen@ymail.com
Topic: 1479 Message: 1483

HI Mike

can you tell me the version of the ATTiny chip you are using ???

you can see at HDSDR at the ExtIO it will start CFSGR

Bent

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
> Iv used AtTiny and UHFSDR with HDSDR at 2m & 70cm .... iv not really liked PowerSDR.
> I dont use it much because im still outputing only 80mW ...
>
> Still trying to decide ona design to get to 500mW~1W ...
>
> Mike KC7NOA
>
> To: UHFSDR@yahoogroups.com
> From: eskolin@...
> Date: Sun, 24 Feb 2013 13:19:21 +0000
> Subject: [UHFSDR] UHFSDR + Powersdr + ATTiny chip
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> hi all
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> is there anyone who uses their UHFSDR + PowerSDR + ATtiny chip
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> at 144MHz or 432MHz who can inform what versions they use???
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>
> so that I can get my SDR up and running ....
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>
> thank you in advance .... OZ1CT Bent
>

1484. RE: [UHFSDR] Re: UHFSDR + Powersdr + ATTiny chip

Yahoo group: UHFSDR
Date: 2013-02-24 21:45:50 UTC
From: MIKE DURKIN
Topic: 1479 Message: 1484

Im using 15.15 .. and yes .... i can go above 500mhz ...

best to take the new CFSGR and paste it into HDSDR folder ....

going by memory that works for the latest ExtIO useage ....

I should see if Wine can handle HDSDR now ....

To: UHFSDR@yahoogroups.com
From: eskolin@...
Date: Sun, 24 Feb 2013 20:13:29 +0000
Subject: [UHFSDR] Re: UHFSDR + Powersdr + ATTiny chip

HI Mike

can you tell me the version of the ATTiny chip you are using ???

you can see at HDSDR at the ExtIO it will start CFSGR

Bent

--- In UHFSDR@...m, MIKE DURKIN wrote:

>

> Iv used AtTiny and UHFSDR with HDSDR at 2m & 70cm .... iv not really liked PowerSDR.

> I dont use it much because im still outputing only 80mW ...

>

> Still trying to decide ona design to get to 500mW~1W ...

>

> Mike KC7NOA

>

> To: UHFSDR@yahoogroups.com

> From: eskolin@...

> Date: Sun, 24 Feb 2013 13:19:21 +0000

> Subject: [UHFSDR] UHFSDR + Powersdr + ATTiny chip

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> hi all

>

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>

> at 144MHz or 432MHz who can inform what versions they use???

>

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>

> so that I can get my SDR up and running ....

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>

> thank you in advance .... OZ1CT Bent

>

1485. RE: [UHFSDR] Re: UHFSDR + Powersdr + ATTiny chip

Yahoo group: UHFSDR
Date: 2013-02-24 21:43:52 UTC
From: MIKE DURKIN
Topic: 1479 Message: 1485

I dont think Powersdr goes past 120mhz still ....

is there something wrong with HDSDR ?

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: eskolin@gmail.com
Date: Sun, 24 Feb 2013 20:10:17 +0000
Subject: [UHFSDR] Re: UHFSDR + Powersdr + ATTiny chip

HI Dave

I have now try Powersdr 2.4.4div2 and it works whit a ATTiny v 15.12 interface up to 144mhz but I need also the 432mhz...

the next is I am running win7-64 and I dont think Power-sdr 1.12.2

will run....

... I have also a USB2SDR soundcard and under this, there is no problem...it just run, the only problem whit this usb-sound card is that I cant get the I/Q signal out to my ASIO soundcard and the again in to MAP65 (jt65 program)(I will use my sdr to EME on 144mhz)

so I think the problem is the ATTiny chip...

any Idea wath to do ???

Bent

--- In UHFSDR@yahoogroups.com, Dave wrote:

>

> Bent:

> I have only used my UHFSDR on an old Thinkpad with a parallel

> interface. I used PowerSDR-IQ v1.12.20 at

> http://code.google.com/p/powersdr-iq/downloads/detail?name=PowerSDR-IQ%20v1.12.20%20Setup.msi&can=2&q=>. PowerSDRv2.4.4_for_Homemade_Rigs http://code.google.com/p/powersdr-iq/downloads/detail?name=PowerSDRv2.4.4_for_Homemade_Rigs.zip&can=2&q=>should work, but I haven't tried it.

>

> Dave - WB6DHW

> http://wb6dhw.com>

>

> On 2/24/2013 5:19 AM, bent_andersen@... wrote:

> >

> > hi all

> > is there anyone who uses their UHFSDR + PowerSDR + ATtiny chip

> > at 144MHz or 432MHz who can inform what versions they use???

> >

> > so that I can get my SDR up and running ....

> >

> > thank you in advance .... OZ1CT Bent

> >

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1486. Re: UHFSDR + Powersdr + ATTiny chip

Yahoo group: UHFSDR
Date: 2013-02-25 18:13:06 UTC
From: bent_andersen@ymail.com
Topic: 1479 Message: 1486

HI Mike

No I dont think there is somting wron whit HDSDR...just another
way to control the radio..and I have to chek it out...as all
other new software...

I can get PowerSDR 2.44 to run on 144mhz whit ATTiny v15.12
but not on 432mz... the new v15.15 wil only run until 142mhz then
it stop....

I think I will change to USB2SDR + UHFSDR and wait and see if
PE0FKO make a new version for the ATTiny chip... I have write
to him, and waiting for news :-)

Bent

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
> I dont think Powersdr goes past 120mhz still ....
>
> is there something wrong with HDSDR ?
>
> Mike KC7NOA
>
> To: UHFSDR@yahoogroups.com
> From: eskolin@...
> Date: Sun, 24 Feb 2013 20:10:17 +0000
> Subject: [UHFSDR] Re: UHFSDR + Powersdr + ATTiny chip
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> HI Dave
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> I have now try Powersdr 2.4.4div2 and it works whit a ATTiny v 15.12 interface up to 144mhz but I need also the 432mhz...
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> will run....
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> ... I have also a USB2SDR soundcard and under this, there is no problem...it just run, the only problem whit this usb-sound card is that I cant get the I/Q signal out to my ASIO soundcard and the again in to MAP65 (jt65 program)(I will use my sdr to EME on 144mhz)
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> so I think the problem is the ATTiny chip...
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> any Idea wath to do ???
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> Bent
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> --- In UHFSDR@yahoogroups.com, Dave wrote:
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> > Bent:
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> > interface. I used PowerSDR-IQ v1.12.20 at
>
> > http://code.google.com/p/powersdr-iq/downloads/detail?name=PowerSDR-IQ%20v1.12.20%20Setup.msi&can=2&q=>. PowerSDRv2.4.4_for_Homemade_Rigs http://code.google.com/p/powersdr-iq/downloads/detail?name=PowerSDRv2.4.4_for_Homemade_Rigs.zip&can=2&q=>should work, but I haven't tried it.
>
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>
> > Dave - WB6DHW
>
> > http://wb6dhw.com>
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> > On 2/24/2013 5:19 AM, bent_andersen@ wrote:
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> > >
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> > > at 144MHz or 432MHz who can inform what versions they use???
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> > > so that I can get my SDR up and running ....
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1487. RE: [UHFSDR] Re: UHFSDR + Powersdr + ATTiny chip

Yahoo group: UHFSDR
Date: 2013-02-25 20:43:49 UTC
From: MIKE DURKIN
Topic: 1479 Message: 1487

i was thinking the sdr-widget myself .... i dont know ....

To: UHFSDR@yahoogroups.com
From: eskolin@...
Date: Mon, 25 Feb 2013 18:13:06 +0000
Subject: [UHFSDR] Re: UHFSDR + Powersdr + ATTiny chip

HI Mike

No I dont think there is somting wron whit HDSDR...just another

way to control the radio..and I have to chek it out...as all

other new software...

I can get PowerSDR 2.44 to run on 144mhz whit ATTiny v15.12

but not on 432mz... the new v15.15 wil only run until 142mhz then

it stop....

I think I will change to USB2SDR + UHFSDR and wait and see if

PE0FKO make a new version for the ATTiny chip... I have write

to him, and waiting for news :-)

Bent

--- In UHFSDR@yahoogroups.com, MIKE DURKIN wrote:

>

> I dont think Powersdr goes past 120mhz still ....

>

> is there something wrong with HDSDR ?

>

> Mike KC7NOA

>

> To: UHFSDR@yahoogroups.com

> From: eskolin@...

> Date: Sun, 24 Feb 2013 20:10:17 +0000

> Subject: [UHFSDR] Re: UHFSDR + Powersdr + ATTiny chip

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> HI Dave

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> I have now try Powersdr 2.4.4div2 and it works whit a ATTiny v 15.12 interface up to 144mhz but I need also the 432mhz...

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> the next is I am running win7-64 and I dont think Power-sdr 1.12.2

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> will run....

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> ... I have also a USB2SDR soundcard and under this, there is no problem...it just run, the only problem whit this usb-sound card is that I cant get the I/Q signal out to my ASIO soundcard and the again in to MAP65 (jt65 program)(I will use my sdr to EME on 144mhz)

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> so I think the problem is the ATTiny chip...

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> any Idea wath to do ???

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> Bent

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> --- In UHFSDR@yahoogroups.com, Dave wrote:

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> > Bent:

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> > I have only used my UHFSDR on an old Thinkpad with a parallel

>

> > interface. I used PowerSDR-IQ v1.12.20 at

>

> > http://code.google.com/p/powersdr-iq/downloads/detail?name=PowerSDR-IQ%20v1.12.20%20Setup.msi&can=2&q=>. PowerSDRv2.4.4_for_Homemade_Rigs http://code.google.com/p/powersdr-iq/downloads/detail?name=PowerSDRv2.4.4_for_Homemade_Rigs.zip&can=2&q=>should work, but I haven't tried it.

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> > Dave - WB6DHW

>

> > http://wb6dhw.com>

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> > On 2/24/2013 5:19 AM, bent_andersen@ wrote:

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> > > hi all

>

> > > is there anyone who uses their UHFSDR + PowerSDR + ATtiny chip

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> > > at 144MHz or 432MHz who can inform what versions they use???

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> > > so that I can get my SDR up and running ....

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> > > thank you in advance .... OZ1CT Bent

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1488. Re: UHFSDR + Powersdr + ATTiny chip

Yahoo group: UHFSDR
Date: 2013-02-26 23:34:00 UTC
From: SW1IXP
Topic: 1479 Message: 1488

Hi all!

I use PowerSDR 1.19.3.20 with my USB2SDR and UHFSDR boards without any problems up to 70cm.
A resent video of an attempted ISS school contact on 2 meters:
http://www.youtube.com/watch?v=jQJ618y6C9w
Another video used as a 70cm IF for my 10GHz transverter:
http://www.youtube.com/watch?v=u4UuZWe2Q4s
More info:
http://sv1ixp.wordpress.com/homebrew-hfvu-sdr/
http://rapidshare.com/files/1156263032/My%20SDR.pdf

73 de SV1IXP

UHFSDR + USB2SDR + BPF/LPF + 100WPA HF/VHF/UHF

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
> i was thinking the sdr-widget myself .... i dont know ....
>
> To: UHFSDR@yahoogroups.com
> From: eskolin@...
> Date: Mon, 25 Feb 2013 18:13:06 +0000
> Subject: [UHFSDR] Re: UHFSDR + Powersdr + ATTiny chip
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> to him, and waiting for news :-)
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> > Mike KC7NOA
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> > HI Dave
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> > > Dave - WB6DHW
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> > > > > is there anyone who uses their UHFSDR + PowerSDR + ATtiny chip
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> > > > > so that I can get my SDR up and running ....
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> > > > thank you in advance .... OZ1CT Bent
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1489. Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-03-09 20:39:51 UTC
From: tony_g3ovh
Topic: 1417 Message: 1489

Hi Christos

I finally got the new ATTiny85 installed with V15.15 firmware. Now it works OK with PowerSDR V2.4.4 X2 version giving the correct receive frequency - thanks for the help. However, I now have a new problem - I want to use this for the UK 4m amateur band 70.0 to 70.5 MHz. I have edited the .xml configuration file to add the correct band texts for the band plan, but cant get Tx enabled. S/W reports "The frequency 70.200000MHz in combination with your TX filter settings [200,3100] are not within the Band specifications for your region (0)." But I can't find where these are specified. Have you emulated the SDR1000 firmware in the extensions to the original code, so that we can't transmit outside the US band plans? This wasn't a problem in PowerSDR-IQ v1.12.20 because I could tick the extended button to allow it. Help please. I'll post in the PowerSDR group as well.

73's
Tony

--- In UHFSDR@yahoogroups.com, "sv1eia" <sv1eia@...> wrote:
>
> Tony,
>
> On Fred's page here
> -> http://pe0fko.nl/SR-V9-Si570/#upgrade
> is mentioned how to do it or where to buy a pre-programmed one
> -> http://www.thepartsplace.k5nwa.com/index.php?route=product/product&path=39_43&product_id=53
>
> 73,
> Christos SV1EIA
>
>
> --- In UHFSDR@yahoogroups.com, "tony_g3ovh" wrote:
> >
> > Hi Christos
> >
> > Thanks for the advice. I didnt want to upgrade because I thought it was mainly for the additions for the Ensemble which I dont have. I dont have a means of reprogramming the device, and so far I have not been able to find a supplier selling the programmed chips. The links take you to either SDR-Kits or "Five Dash" who dont seem to be selling the programmed ATtiny 85 micro on its own. If anyone has a source, I would like to know.
> > I'll try and get in touch with SDR-kits who I bought the original QRP2000 USB controller off.
> >
> > Tony

1490. Re: PowerDSR and UHFSDR ???

Yahoo group: UHFSDR
Date: 2013-03-10 20:56:36 UTC
From: sv1eia
Topic: 1417 Message: 1490

Just to follow the happy ending and success..

-> http://groups.yahoo.com/group/powersdr-iq/message/2776

73,
Christos SV1EIA

--- In UHFSDR@yahoogroups.com, "tony_g3ovh" <tabbey01@...> wrote:
>
> Hi Christos
>
> I finally got the new ATTiny85 installed with V15.15 firmware. Now it works OK with PowerSDR V2.4.4 X2 version giving the correct receive frequency - thanks for the help.
> However, I now have a new problem - I want to use this for the UK 4m amateur band 70.0 to 70.5 MHz. I have edited the .xml configuration file to add the correct band texts for the band plan, but cant get Tx enabled. S/W reports "The frequency 70.200000MHz in combination with your TX filter settings [200,3100] are not within the Band specifications for your region (0)." But I can't find where these are specified. Have you emulated the SDR1000 firmware in the extensions to the original code, so that we can't transmit outside the US band plans? This wasn't a problem in PowerSDR-IQ v1.12.20 because I could tick the extended button to allow it. Help please. I'll post in the PowerSDR group as well.
>
> 73's
> Tony
>
>
> --- In UHFSDR@yahoogroups.com, "sv1eia" <sv1eia@> wrote:
> >
> > Tony,
> >
> > On Fred's page here
> > -> http://pe0fko.nl/SR-V9-Si570/#upgrade
> > is mentioned how to do it or where to buy a pre-programmed one
> > -> http://www.thepartsplace.k5nwa.com/index.php?route=product/product&path=39_43&product_id=53
> >
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> > --- In UHFSDR@yahoogroups.com, "tony_g3ovh" wrote:
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> > > Thanks for the advice. I didnt want to upgrade because I thought it was mainly for the additions for the Ensemble which I dont have. I dont have a means of reprogramming the

device, and so far I have not been able to find a supplier selling the programmed chips. The links take you to either SDR-Kits or "Five Dash" who dont seem to be selling the programmed ATtiny 85 micro on its own. If anyone has a source, I would like to know.
> > > I'll try and get in touch with SDR-kits who I bought the original QRP2000 USB controller off.
> > >
> > > Tony
>

1491. FW: Help with SI570

Yahoo group: UHFSDR
Date: 2013-03-11 22:40:18 UTC
From: The Silver Fox
Topic: 1491 Message: 1491

Any advice for this builder?

73,

Alan - W6ARH

From: Mansueto Grech [mailto:mansueto.grech@...]
Sent: Monday, March 11, 2013 3:24 PM
To: Alan Hill
Subject: Re: Help with SI570

Hi Alan,

Today I found some time and continued on the UHFSDR.

Unfortunately I encountered a problem.

I am now at steps 65-69

my problem is as follows

We have determined that the SI570 supplied is an LVPECL.

Steps 65 & 55the frequency is 20.000 MHz and 20.023Mhz respectively but not squarewave

step 67 the dc offset is more or less OK

but step 68 tp8 and tp9 are not out of phase.

Can you be so kind as to ehelp me with this

Thank you in advance and 73's

Mans. 9H1GB

On 25 February 2013 16:45, Alan Hill <alan.r.hill@...> wrote:

Mans,

The SDR2GO documentation says that you can use the Si570 either way.
You do not have to remove it if installed on the UHFSDR. However, if you have not installed it, then you can use it on the SDR2GO instead of on the UHFSDR board. You need an upvertor if you want to xmit.

If you want to receive only, consider the funcube or any of the RTL2832 USB sticks.
73,

Alan - W6ARH

On Sun, Feb 24, 2013 at 11:22 PM, Mansueto Grech <mansueto.grech@...>
wrote:

Hi Alan,

Thank for the info.

My main aim is to use both from home and portable but mainly portable in conjunction with my Microwave transverters, although I still have to somehow increase the rang to 1.3Ghz for my 24GHz transverter.

I try to document my self on the two systems and at a later stage decide. maybe, as you said something else might crop up.

Oh one other thing if I may, I was reading the SDR2usb presentation and if I recollect correctly the author said that, an this is from memory, to not use the S570 on the UHFSDR but instead use the one on the Board. If so by adding the transformer and not enabling the SI570 will work or I need to take the SI570 off the board.

Thank you very very much for you help and assistance.

73's

Mans. 9H1GB

On 25 February 2013 00:08, The Silver Fox <alan.r.hill@...> wrote:

You are correct on the specifications of the Si570. The SDR Widget is superior to any other sound system. I am not clear on whether or not you can still purchase them. See the sdr-widget group to answer that question. The USBS2SDR is designed to provide the sound and computation for SDR users and to assist in making the system more portable. So, if you want the optimum and intend to work in a shack, the widget is what I would recommend. However, if you want simplicity and portability, then look into the USB2SDR. I am looking into the less expensive solutions with portability as one of the parameters.

The board makers are iterating to smaller and more powerful processors all the time. Secondly, they are integrating better and better A/D and sound chips. Hopefully, the SDR designers will migrate to emerging better technologies.

73,

Alan - W6ARH

From: Mansueto Grech [mailto:mansueto.grech@...]
Sent: Sunday, February 24, 2013 1:18 PM
To: The Silver Fox
Subject: Re: Help with SI570

Hi Alan,

Thanks for the info.

Please see attached pic and, If I am not asking too much, confirm if I am correct or not Please.

I see AAA000514G

So it is a 3.3V LVPECL, temp stability 50ppm total stability61.5ppm, 10-945, 970-1134, 1213-1417.5 MHz,etc.

One other thing I am reading that there are couple of systems that USB2SDR and SDR Widget, Which in your opinion is the best of the too?

Thank you very much for your help and assistance

73's

Mans. 9H1GB

On 24 February 2013 17:41, The Silver Fox <alan.r.hill@...> wrote:

I've included the specification which contains the info on how to decode the chip ID. Thanks for the reminder on the chips. I'm not reliable on estimates but do plan to clean up my act this week.

73,

ALAN - w6arh

From: Mansueto Grech [mailto:mansueto.grech@...]
Sent: Sunday, February 24, 2013 7:35 AM
To: The Silver Fox
Subject: Help with SI570

Hi Alan,

Sorry to bother you again but I have just soldered the SI570 and on steps 56 to 63 and Wish to ask you how do I identfy the SI570 if it is an LVDS or LVPECL output?

One other thing Can I Please remind you about the 10uf 0805 chips please

Thank you in advance and 73's

Mans. 9H1GB

On 16 February 2013 23:50, The Silver Fox <alan.r.hill@...> wrote:

I can help. Please give me a day or two to get back to you.

73,

Alan - W6ARH

Hi Alan,

I got round to building the UHFSDR FINALLY.

Alan I need your help cause whilst sorting out the parts I seem to have misplaced some of the 10uf 0805 Chips.

Is it possible for me to purchase from you some more as they seem to be lacking here.

I need about 2 but If I can get some more as spare Would be even better.

Can you assist me please.

Thank you in advance

Mans. 9H1GB

1492. Re: [UHFSDR] FW: Help with SI570

Yahoo group: UHFSDR
Date: 2013-03-11 22:47:48 UTC
From: Mansueto Grech
Topic: 1491 Message: 1492

Hi Alan,
Thanks fr forwarding the message to Alan.
Sorry forgot to remind you about the 10uf non polarised 0805
Thanks again
and 73's
Mans.9H1GB

On 11 March 2013 23:40, The Silver Fox <alan.r.hill@...> wrote:

> **
>
>
> Any advice for this builder?****
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> 73,****
>
> Alan – W6ARH****
>
> ** **
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> ** **
>
> *From:* Mansueto Grech [mailto:mansueto.grech@...]
> *Sent:* Monday, March 11, 2013 3:24 PM
> *To:* Alan Hill
>
> *Subject:* Re: Help with SI570****
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> ** **
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> Hi Alan,****
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> ALAN – w6arh****
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> *Sent:* Sunday, February 24, 2013 7:35 AM
> *To:* The Silver Fox
> *Subject:* Help with SI570****
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> Thank you in advance and 73's****
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> ****
>
> Mans. 9H1GB****
>
> On 16 February 2013 23:50, The Silver Fox <alan.r.hill@...> wrote:**
> **
>
> I can help. Please give me a day or two to get back to you. ****
>
> 73,****
>
> Alan - W6ARH****
>
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>
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> Hi Alan,****
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1493. Re: [UHFSDR] FW: Help with SI570

Yahoo group: UHFSDR
Date: 2013-03-11 23:57:45 UTC
From: Sid Boyce
Topic: 1491 Message: 1493

They should be anti-phase.

One common problem is soldering, especially pins 7 and 8 where you have
to ensure the main contacts are not bridged to either of the thin strips
either side of the pins.

Check H2- 1 -> 2 are bridged to produce OE High.
73 ... Sid.

On 11/03/13 22:40, The Silver Fox wrote:
>
> Any advice for this builder?
>
> 73,
>
> Alan -- W6ARH
>
> *From:*Mansueto Grech [mailto:mansueto.grech@...]
> *Sent:* Monday, March 11, 2013 3:24 PM
> *To:* Alan Hill
> *Subject:* Re: Help with SI570
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> On 25 February 2013 16:45, Alan Hill <alan.r.hill@...
> <mailto:alan.r.hill@...>> wrote:
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> way. You do not have to remove it if installed on the UHFSDR.
> However, if you have not installed it, then you can use it on the
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>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1494. Re: [UHFSDR] FW: Help with SI570

Yahoo group: UHFSDR
Date: 2013-03-12 01:34:39 UTC
From: Dave
Topic: 1491 Message: 1494

Mans:
What are you using to measure the frequency? Both test points are the same frequency. It should be 19.982 MHz. TP8 and TP9 can't be in phase if R46-R49 and C59 and C60 are properly installed. Note that for LVPECL, C59 and C60 are 0 ohm resisters! Where is your ground connected and are you using a dual trace oscilloscope? If so, make sure you are not in alternate trace mode. You need both traces to start at the same time. Trigger from TP8 or TP9. To see a good square wave at 20 MHz, you need at least a 100 MHz scope. What amplitudes are you seeing at TP8 and TP9?

Dave - WB6DHW
<http://wb6dhw.com>

On 3/11/2013 3:40 PM, The Silver Fox wrote:
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>
> Alan -- W6ARH
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> *To:* Alan Hill
> *Subject:* Re: Help with SI570
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1495. Where do we stand on UHFSDR kits? any in Stock?

Yahoo group: UHFSDR
Date: 2013-03-12 04:27:10 UTC
From: Dean Smart
Topic: 1495 Message: 1495

I wanted to know where do we stand on UHFSDR kits?
Dean
KB7ANL
Twin Falls, Idaho

1496. Re: [UHFSDR] FW: Help with SI570

Yahoo group: UHFSDR
Date: 2013-03-12 15:16:53 UTC
From: Mansueto Grech
Topic: 1491 Message: 1496

Hi Sid,
I have checked for any bridges between pin 7 and 8 I even took the device
off and re-soldered the SI570 with same results.
Yes H2-1 and H2-2 are properly bridged
Thnaks for the help Sid,
73's
Mans.9H1GB

On 12 March 2013 00:57, Sid Boyce <sboyce@...> wrote:

> **
>
>
> They should be anti-phase.
>
> One common problem is soldering, especially pins 7 and 8 where you have to
> ensure the main contacts are not bridged to either of the thin strips
> either side of the pins.
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> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
> Senior Staff Specialist, Cricket Coach
> Microsoft Windows Free Zone - Linux used for all Computing Tasks
>
>
>

1497. Re: [UHFSDR] FW: Help with SI570

Yahoo group: UHFSDR
Date: 2013-03-12 15:27:22 UTC
From: Mansueto Grech
Topic: 1491 Message: 1497

Hi Dave,
My Frequency Counter is an EIP548a.
I have checked R46-49 and are OK And yes they are in phase how I don't
Know. C59 and 60 are 0 ohms.
I am grounding using a screw with a tag in one of the 4 holes on the board.
MY scope is a dual trace scope and is a Hameg HM303-6 35Mhz. Amplitude is
.68 PtoP and sinewave.

Dave I am studying the schematics and I see that R26 (0 ohms) is included
for the SI570 but My Installation Manual say not to install unless you are
using an SI571 Step52. Is this correct?
73's and Thanks
Mans. 9H1GB

On 12 March 2013 02:34, Dave <dave@...> wrote:

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> Mans:
> What are you using to measure the frequency? Both test points are the
> same frequency. It should be 19.982 MHz. TP8 and TP9 can't be in phase if
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> If you want to receive only, consider the funcube or any of the RTL2832

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> 73,****
>
> Alan - W6ARH****
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> wrote:****
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1498. RE: [UHFSDR] Where do we stand on UHFSDR kits? any in Stock?

Yahoo group: UHFSDR
Date: 2013-03-12 17:01:39 UTC
From: The Silver Fox
Topic: 1495 Message: 1498

They can be ordered but there is currently a six week shipping queue due to backordered Si570's.

73,

Alan - W6ARH

Mobokits http://mobokits.stormwarning.org/

UHFSDR Full Kit http://wb6dhw.com/For_Sale.html $210 USD US and $215 DX
Paypal money to my email adddress

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Dean Smart
Sent: Monday, March 11, 2013 9:27 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Where do we stand on UHFSDR kits? any in Stock?

I wanted to know where do we stand on UHFSDR kits?
Dean
KB7ANL
Twin Falls, Idaho

1499. Re: UHFSDR + Powersdr 2.44 div2 + ATTiny v15.12 &v v15.15

Yahoo group: UHFSDR
Date: 2013-03-12 18:05:32 UTC
From: bent_andersen@ymail.com
Topic: 1474 Message: 1499

Hi Christos

I now got a new ATTiny v15,14 from K5NWA and install it....BUT it
is the same :-(it stop at 142mhz (si570 stop at 284mhz)...

I have no mail from Fred so I can go back to Attiny v15.12 and only have up to 144mhz on my
UHFSDR :-(

OZ1CT Bent

--- In UHFSDR@yahoogroups.com, "sv1eia" <sv1eia@...> wrote:
>
> Hi Bent,
>
> Nice catch.
>
> As I said I use the 0x32 PE0FKO firmware command, so it might be something there that
gives us trouble.
> I hope that Fred could see to that too.
>
> Otherwise I'll implement a new Div2 version without using the 0x32 firmware command.
>
> 73,
> Christos SV1EIA
>
>
> --- In UHFSDR@yahoogroups.com, "bent_andersen@" <eskolin@> wrote:
> >
> >
> > Hi all
> >
> > I have now try to get the sdr running and have now try 2 version of
> > the ATTiny version v15.15 & v15.12 and I can get the v15.12 to go up
> > to 200mhz the it stop. the v15.15 is going up to 142mhz then it stop.
> >
> > you can try to look on this 2 video I have uploaded to my web.
> >
> > http://oz1ct.dk/download/video-15-15.mp4
> >
> > http://oz1ct.dk/download/video-15-12.mp4
> >
> > OZ1CT Bent
> >
>

1500. Re: [UHFSDR] FW: Help with SI570

Yahoo group: UHFSDR
Date: 2013-03-12 22:42:14 UTC
From: Dave
Topic: 1491 Message: 1500

Mansueto:
A 35 MHz scope is too slow to show the harmonics of the 19.982 MHz that make up the squarewave. So you see a sinewave because you are not seeing the harmonics. .68VP_P is a little low, but probably OK as a 35 MHz scope is probably down 1 or 2 dB ar 20 MHz. How are you triggering your scope. If you are using internal trigger and alternate mode, they could appear to be in phase. The Si571 has a modulation input pin. On the Si570, that pin is a no connect.

Dave - WB6DHW
<http://wb6dhw.com>

On 3/12/2013 8:27 AM, Mansueto Grech wrote:
>
> Hi Dave,
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> My Frequency Counter is an EIP548a.
> I have checked R46-49 and are OK And yes they are in phase how I don't
> Know. C59 and 60 are 0 ohms.
> I am grounding using a screw with a tag in one of the 4 holes on the
> board.
> MY scope is a dual trace scope and is a Hameg HM303-6 35Mhz.
> Amplitude is .68 PtoP and sinewave.
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> Dave I am studying the schematics and I see that R26 (0 ohms) is
> included for the SI570 but My Installation Manual say not to install
> unless you are using an SI571 Step52. Is this correct?
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> On 12 March 2013 02:34, Dave <dave@...
> <mailto:dave@...>> wrote:
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> oscilloscope? If so, make sure you are not in alternate trace
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> Dave - WB6DHW

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>> *Sent:* Monday, March 11, 2013 3:24 PM
>> *To:* Alan Hill
>> *Subject:* Re: Help with SI570
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1501. Re: [UHFSDR] FW: Help with SI570

Yahoo group: UHFSDR
Date: 2013-03-12 23:22:36 UTC
From: Mansueto Grech
Topic: 1491 Message: 1501

Hi Dave,
Thanks for the help.
I'll try to borrow a 100MHz scope from a friend and retest everything.
One other thing I am noticing is that with or without the link from H2-2 to
H2-1 no change is noticed.
Thanks again Dave. I'll let you know the outcome.
73's
Mans. 9H1GB

On 12 March 2013 23:42, Dave <dave@...> wrote:

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> Mansueto:
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1502. RE: [UHFSDR] FW: Help with SI570

Yahoo group: UHFSDR
Date: 2013-03-13 01:29:09 UTC
From: Ronald Wagner
Topic: 1491 Message: 1502

Can't he set the frequency of the si570 to 1MHz (-ish) to see a good signal?

Ron

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
Dave
Sent: Tuesday, March 12, 2013 3:42 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] FW: Help with SI570

Mansueto:
A 35 MHz scope is too slow to show the harmonics of the 19.982 MHz that
make up the squarewave. So you see a sinewave because you are not seeing
the harmonics. .68VP_P is a little low, but probably OK as a 35 MHz scope
is probably down 1 or 2 dB ar 20 MHz. How are you triggering your scope.
If you are using internal trigger and alternate mode, they could appear to
be in phase. The Si571 has a modulation input pin. On the Si570, that pin
is a no connect.

Dave - WB6DHW
<http://wb6dhw.com> <http://wb6dhw.com>

On 3/12/2013 8:27 AM, Mansueto Grech wrote:

Hi Dave,

My Frequency Counter is an EIP548a.

I have checked R46-49 and are OK And yes they are in phase how I don't Know.
C59 and 60 are 0 ohms.

I am grounding using a screw with a tag in one of the 4 holes on the board.

MY scope is a dual trace scope and is a Hameg HM303-6 35Mhz. Amplitude is
.68 PtoP and sinewave.

Dave I am studying the schematics and I see that R26 (0 ohms) is included
for the SI570 but My Installation Manual say not to install unless you are
using an SI571 Step52. Is this correct?

73's and Thanks

Mans. 9H1GB

On 12 March 2013 02:34, Dave <dave@...> wrote:

Mans:
What are you using to measure the frequency? Both test points are the
same frequency. It should be 19.982 MHz. TP8 and TP9 can't be in phase if

R46-R49 and C59 and C60 are properly installed. Note that for LVPECL, C59 and C60 are 0 ohm resisters! Where is your ground connected and are you using a dual trace oscilloscope? If so, make sure you are not in alternate trace mode. You need both traces to start at the same time. Trigger from TP8 or TP9. To see a good square wave at 20 MHz, you need at least a 100 MHz scope. What amplitudes are you seeing at TP8 and TP9?

Dave - WB6DHW
<http://wb6dhw.com> <http://wb6dhw.com>

On 3/11/2013 3:40 PM, The Silver Fox wrote:

Any advice for this builder?

73,

Alan - W6ARH

From: Mansueto Grech [mailto:mansueto.grech@...]
Sent: Monday, March 11, 2013 3:24 PM
To: Alan Hill
Subject: Re: Help with SI570

Hi Alan,

Today I found some time and continued on the UHFSDR.

Unfortunately I encountered a problem.

I am now at steps 65-69

my problem is as follows

We have determined that the SI570 supplied is an LVPECL.

Steps 65 & 55the frequency is 20.000 MHz and 20.023Mhz respectively but not squarewave

step 67 the dc offset is more or less OK

but step 68 tp8 and tp9 are not out of phase.

Can you be so kind as to ehelp me with this

Thank you in advance and 73's

Mans. 9H1GB

On 25 February 2013 16:45, Alan Hill <alan.r.hill@...> wrote:

Mans,

The SDR2GO documentation says that you can use the Si570 either way.
You do not have to remove it if installed on the UHFSDR. However, if you have not installed it, then you can use it on the SDR2GO instead of on the

UHFSDR board. You need an upvertor if you want to xmit.

If you want to receive only, consider the funcube or any of the RTL2832 USB sticks.
73,

Alan - W6ARH

On Sun, Feb 24, 2013 at 11:22 PM, Mansueto Grech <mansueto.grech@...> wrote:

Hi Alan,

Thank for the info.

My main aim is to use both from home and portable but mainly portable in conjunction with my Microwave transverters, although I still have to somehow increase the rang to 1.3Ghz for my 24GHz transverter.

I try to document my self on the two systems and at a later stage decide. maybe, as you said something else might crop up.

Oh one other thing if I may, I was reading the SDR2usb presentation and if I recollect correctly the author said that, an this is from memory, to not use the S570 on the UHFSDR but instead use the one on the Board. If so by adding the transformer and not enabling the SI570 will work or I need to take the SI570 off the board.

Thank you very very much for you help and assistance.

73's

Mans. 9H1GB

On 25 February 2013 00:08, The Silver Fox <alan.r.hill@...> wrote:

You are correct on the specifications of the Si570. The SDR Widget is superior to any other sound system. I am not clear on whether or not you can still purchase them. See the sdr-widget group to answer that question. The USBS2SDR is designed to provide the sound and computation for SDR users and to assist in making the system more portable. So, if you want the optimum and intend to work in a shack, the widget is what I would recommend. However, if you want simplicity and portability, then look into the USB2SDR. I am looking into the less expensive solutions with portability as one of the parameters.

The board makers are iterating to smaller and more powerful processors all the time. Secondly, they are integrating better and better A/D and sound chips. Hopefully, the SDR designers will migrate to emerging better technologies.

73,

Alan - W6ARH

From: Mansueto Grech [mailto:mansueto.grech@...]
Sent: Sunday, February 24, 2013 1:18 PM
To: The Silver Fox
Subject: Re: Help with SI570

Hi Alan,

Thanks for the info.

Please see attached pic and, If I am not asking too much, confirm if I am correct or not Please.

I see AAA000514G

So it is a 3.3V LVPECL, temp stability 50ppm total stability61.5ppm, 10-945, 970-1134, 1213-1417.5 MHz,etc.

One other thing I am reading that there are couple of systems that USB2SDR and SDR Widget, Which in your opinion is the best of the too?

Thank you very much for your help and assistance

73's

Mans. 9H1GB

On 24 February 2013 17:41, The Silver Fox <alan.r.hill@...> wrote:

I've included the specification which contains the info on how to decode the chip ID. Thanks for the reminder on the chips. I'm not reliable on estimates but do plan to clean up my act this week.

73,

ALAN - w6arh

From: Mansueto Grech [mailto:mansueto.grech@...]
Sent: Sunday, February 24, 2013 7:35 AM
To: The Silver Fox
Subject: Help with SI570

Hi Alan,

Sorry to bother you again but I have just soldered the SI570 and on steps 56 to 63 and Wish to ask you how do I identfy the SI570 if it is an LVDS or LVPECL output?

One other thing Can I Please remind you about the 10uf 0805 chips please

Thank you in advance and 73's

Mans. 9H1GB

On 16 February 2013 23:50, The Silver Fox <alan.r.hill@...> wrote:

I can help. Please give me a day or two to get back to you.

73,

Alan - W6ARH

Hi Alan,

I got round to building the UHFSDR FINALLY.

Alan I need your help cause whilst sorting out the parts I seem to have misplaced some of the 10uf 0805 Chips.

Is it possible for me to purchase from you some more as they seem to be lacking here.

I need about 2 but If I can get some more as spare Would be even better.

Can you assist me please.

Thank you in advance

Mans. 9H1GB

1503. Re: [UHFSDR] FW: Help with SI570

Yahoo group: UHFSDR
Date: 2013-03-13 05:24:36 UTC
From: Dave
Topic: 1491 Message: 1503

Ronald:
The Si570 could be programmed down to 3.5 MHz. But, at those steps in the assembly, the Si570 is not connected to as programmer. Sounds like his Si570 is working OK. Doing the measurement at that point before programming verifies that the Si570 is working. If you program it and then test, if the output is not correct, you don't know if it is the Si570 or the programming circuitry.

Dave - WB6DHW
<http://wb6dhw.com>

On 3/12/2013 6:29 PM, Ronald Wagner wrote:
>
> Can't he set the frequency of the si570 to 1MHz (-ish) to see a good
> signal?
>
> Ron
>
> *From:*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] *On
> Behalf Of *Dave
> *Sent:* Tuesday, March 12, 2013 3:42 PM
> *To:* UHFSDR@yahoogroups.com
> *Subject:* Re: [UHFSDR] FW: Help with SI570
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> Mansueto:
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> that make up the squarewave. So you see a sinewave because you are
> not seeing the harmonics. .68VP_P is a little low, but probably OK as
> a 35 MHz scope is probably down 1 or 2 dB ar 20 MHz. How are you
> triggering your scope. If you are using internal trigger and
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> modulation input pin. On the Si570, that pin is a no connect.
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> Hi Dave,
>
> My Frequency Counter is an EIP548a.
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> I have checked R46-49 and are OK And yes they are in phase how I
> don't Know. C59 and 60 are 0 ohms.
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> I am grounding using a screw with a tag in one of the 4 holes on
> the board.
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> MY scope is a dual trace scope and is a Hameg HM303-6 35Mhz.
> Amplitude is .68 PtoP and sinewave.
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> Dave I am studying the schematics and I see that R26 (0 ohms) is
> included for the SI570 but My Installation Manual say not to
> install unless you are using an SI571 Step52. Is this correct?
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> 73's and Thanks
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> Mans:
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> are the same frequency. It should be 19.982 MHz. TP8 and TP9
> can't be in phase if R46-R49 and C59 and C60 are properly
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> Any advice for this builder?
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> I need about 2 but If I can get some more as spare Would be
> even better.
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> Can you assist me please.
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> Thank you in advance
>
> Mans. 9H1GB
>
> _

1504. Re: Where do we stand on UHFSDR kits? any in Stock?

Yahoo group: UHFSDR
Date: 2013-03-15 14:22:26 UTC
From: Dean Smart
Topic: 1495 Message: 1504

Alan
Thanks for the the update.

Let me know when you have them in Stock.

Do you need to have some money donated to generate an inventory.
I would donate $10.00 to help give you a pool of funds to get past this 6 week ordering issue. I'm sure many in the group could do the same thing. Where you would have an inventory on hand.
I personally can't do more then that but this may help you out.

Thanks
Dean
KB7ANL
Twin Falls, Idaho

--- In UHFSDR@yahoogroups.com, "The Silver Fox" <alan.r.hill@...> wrote:
>
> They can be ordered but there is currently a six week shipping queue due to
> backordered Si570's.
>
> 73,
>
> Alan - W6ARH
>
>
>
> Mobokits http://mobokits.stormwarning.org/
>
> UHFSDR Full Kit http://wb6dhw.com/For_Sale.html $210 USD US and $215 DX
> Paypal money to my email adddress
>
>
>
>
>
>
>
> From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
> Dean Smart
> Sent: Monday, March 11, 2013 9:27 PM
> To: UHFSDR@yahoogroups.com
> Subject: [UHFSDR] Where do we stand on UHFSDR kits? any in Stock?
>
>
>

>
>
> I wanted to know where do we stand on UHFSDR kits?
> Dean
> KB7ANL
> Twin Falls, Idaho
>

1505. RE: [UHFSDR] Re: Where do we stand on UHFSDR kits? any in Stock?

Yahoo group: UHFSDR
Date: 2013-03-15 15:59:06 UTC
From: The Silver Fox
Topic: 1495 Message: 1505
Attachments: 2 described; binary payloads are missing from this source WARC

Thanks for the suggested help but at the moment it is unnecessary. The Si570s have arrived but I suffered a concurrent outage of my master computer and it cost me another week of down time.

It will likely be about three weeks before I can clear out the current orders.

73,

Alan - W6ARH

Mobokits http://mobokits.stormwarning.org/

UHFSDR Full Kit http://wb6dhw.com/For_Sale.html $210 USD US and $215 DX
Paypal money to my email adddress

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Dean Smart
Sent: Friday, March 15, 2013 7:22 AM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Re: Where do we stand on UHFSDR kits? any in Stock?

Alan
Thanks for the the update.

Let me know when you have them in Stock.

Do you need to have some money donated to generate an inventory.
I would donate $10.00 to help give you a pool of funds to get past this 6 week ordering issue. I'm sure many in the group could do the same thing.
Where you would have an inventory on hand.
I personally can't do more then that but this may help you out.

Thanks
Dean
KB7ANL
Twin Falls, Idaho

--- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com> , "The Silver Fox" <alan.r.hill@...> wrote:
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> Alan - W6ARH
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> Mobokits http://mobokits.stormwarning.org/
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> I wanted to know where do we stand on UHFSDR kits?
> Dean
> KB7ANL
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>

1506. Si570 LVDS 10-810MHz 570BAB000107DG

Yahoo group: UHFSDR
Date: 2013-03-16 18:46:19 UTC
From: Dominic
Topic: 1506 Message: 1506

Hi,

I have a couple Si570 CMOS and LVDS versions the latter being 570BAB000107DG so I think this means they are 10-810MHz variants, OE High so need to and have a 10MHz startup frequency.

So not the 570ABA000514G LVPECL version

This means I think I have to:

Connect H2-2 to H2-1
Install R45 (100 ohm)
Install C59,C60 (.1uF)
Install R46,R48 (1K)
Install R47,R49 (3.3K)

I am probably going to be happy enough with HF, 6m and 4m (maybe 2m) so it doesn't have to be the 1400MHz variant.

Anyone see any issues using one of these in the UHFSDR?

72

Dom
M1KTA

1507. Re: [UHFSDR] Si570 LVDS 10-810MHz 570BAB000107DG

Yahoo group: UHFSDR
Date: 2013-03-16 20:09:58 UTC
From: Dave
Topic: 1506 Message: 1507

Dom:
Should work OK. Those components were designed to match LVDS output
to LVPECL input.

Dave - WB6DHW
<http://wb6dhw.com>

On 3/16/2013 11:46 AM, Dominic wrote:
>
> Hi,
>
> I have a couple Si570 CMOS and LVDS versions the latter being
> 570BAB000107DG so I think this means they are 10-810MHz variants, OE
> High so need to and have a 10MHz startup frequency.
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> So not the 570ABA000514G LVPECL version
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> This means I think I have to:
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> I am probably going to be happy enough with HF, 6m and 4m (maybe 2m)
> so it doesn't have to be the 1400MHz variant.
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> Anyone see any issues using one of these in the UHFSDR?
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> 72
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> Dom
> M1KTA
>
>

1508. Re: Si570 LVDS 10-810MHz 570BAB000107DG

Yahoo group: UHFSDR
Date: 2013-03-17 10:53:53 UTC
From: Dominic
Topic: 1506 Message: 1508

Thanks Dave.

72

Dom
M1KTA

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> Dom:
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> to LVPECL input.
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> Dave - WB6DHW
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1509. Data modes?

Yahoo group: UHFSDR
Date: 2013-03-18 09:20:14 UTC
From: wt4cm
Topic: 1509 Message: 1509

Is anyone using this UHFSDR for different data modes? I was reviewing the Part 97 rules yesterday and noticed that 56k is allowed on 220 and 440 MHz.

It seems that it should be possible to do a high speed GMSK modem in software. Has anyone done this already? Has anyone tried implementing any other digital modes with this unit?

Thanks,

Chuck
WT4CM

1510. RE: [UHFSDR] Data modes?

Yahoo group: UHFSDR
Date: 2013-03-18 15:42:20 UTC
From: MIKE DURKIN
Topic: 1509 Message: 1510

whats the bandwidth at 56K?

Will your soundcard deliver that information to the UHFSDR ?

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: wt4cm@yahoo.com
Date: Mon, 18 Mar 2013 09:20:14 +0000
Subject: [UHFSDR] Data modes?

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Thanks,

Chuck

WT4CM

1511. Re: Data modes?

Yahoo group: UHFSDR
Date: 2013-03-18 16:42:42 UTC
From: wt4cm
Topic: 1509 Message: 1511

This old hardware packet modem used MSK and is 70 KHz wide at 26 dB down (http://www.wa4dsy.net/56kb/56kpaper.html). GMSK should use less bandwidth.

If i understand correctly, with a soundcard sampling at 192kHz, a 96kHz wide signal is possible. That might be ambitious, though, so that's why I'm asking what's been done up to this point.

Chuck
WT4CM

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
> whats the bandwidth at 56K?
>
> Will your soundcard deliver that information to the UHFSDR ?
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> Mike KC7NOA
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> To: UHFSDR@yahoogroups.com
> From: wt4cm@...
> Date: Mon, 18 Mar 2013 09:20:14 +0000
> Subject: [UHFSDR] Data modes?
>
>
> Is anyone using this UHFSDR for different data modes? I was reviewing the Part 97 rules yesterday and noticed that 56k is allowed on 220 and 440 MHz.
>
>
> It seems that it should be possible to do a high speed GMSK modem in software. Has anyone done this already? Has anyone tried implementing any other digital modes with this unit?
>
>
>
> Thanks,
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>
>
> Chuck
>
> WT4CM
>

1512. RE: [UHFSDR] Re: Data modes?

Yahoo group: UHFSDR
Date: 2013-03-18 17:07:02 UTC
From: MIKE DURKIN
Topic: 1509 Message: 1512

im not aware of it .... but the only real problem i can think of is gain flatness for the sound source ....

and .... i m not sure if you must send in FM.

Im not sure many computers will be up to the task of sending 96Khz of I/Q of FM modulation, the math is abit more involved ...

at least that's what strikes me as such ....

I use my UHFSDR with ghpsdr3-alex(ubuntu) and i cant demodulate FM for some reason ...

I might have a I/Q phase error larger than what the program can handle(actually programed - i suspect that it could) .... others have commented on phase error and unknown why. though i do suspect its something to do with the relay's you might get and the configuration needed for said relays --- the kit can be built with .... ummm two different relays now. Was three but one has terible noise floor for some reason (going by memory(bad idea) .. and what some one else said) ...

Wish more programs would be re-writen to use quadature schems ... it would be great to use MixW directly rather needing one program to demodulate the I/Q stream and then another to demod the information of the packets.

So i say .. have at it !!!!! 48k baud is still better than 1.2K ....

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: wt4cm@...
Date: Mon, 18 Mar 2013 16:42:42 +0000
Subject: [UHFSDR] Re: Data modes?

This old hardware packet modem used MSK and is 70 KHz wide at 26 dB down (http://www.wa4dsy.net/56kb/56kpaper.html). GMSK should use less bandwidth.

If i understand correctly, with a soundcard sampling at 192kHz, a 96kHz wide signal is possible. That might be ambitious, though, so that's why I'm asking what's been done up to this point.

Chuck

WT4CM

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:

>

> whats the bandwidth at 56K?

>

> Will your soundcard deliver that information to the UHFSDR ?

>

> Mike KC7NOA

>

> To: UHFSDR@yahoogroups.com

> From: wt4cm@...

> Date: Mon, 18 Mar 2013 09:20:14 +0000

> Subject: [UHFSDR] Data modes?

>

>

> Is anyone using this UHFSDR for different data modes? I was reviewing the Part 97 rules yesterday and noticed that 56k is allowed on 220 and 440 MHz.

>

>

> It seems that it should be possible to do a high speed GMSK modem in software. Has anyone done this already? Has anyone tried implementing any other digital modes with this unit?

>

>

>

> Thanks,

>

>

>

> Chuck

>

> WT4CM

>

1513. Re: [UHFSDR] Data modes?

Yahoo group: UHFSDR
Date: 2013-03-18 18:48:07 UTC
From: Dave
Topic: 1509 Message: 1513

Chuck:
The hardware should be able to do it. I have ran PSK-31 by using VAC between PSDR-IQ and the digital program. I don't know if anyone has written the software for 56K. Would certainly be neat.

Dave - WB6DHW
<http://wb6dhw.com>

On 3/18/2013 2:20 AM, wt4cm wrote:
>
> Is anyone using this UHFSDR for different data modes? I was reviewing
> the Part 97 rules yesterday and noticed that 56k is allowed on 220 and
> 440 MHz.
>
> It seems that it should be possible to do a high speed GMSK modem in
> software. Has anyone done this already? Has anyone tried implementing
> any other digital modes with this unit?
>
> Thanks,
>
> Chuck
> WT4CM
>
> _

1514. Re: [UHFSDR] Data modes?

Yahoo group: UHFSDR
Date: 2013-03-18 19:01:07 UTC
From: James Hall
Topic: 1509 Message: 1514

I wonder if some exists within GNUradio. Seems like it should..

On Mon, Mar 18, 2013 at 2:48 PM, Dave <dave@...> wrote:

> **
>
>
> Chuck:
> The hardware should be able to do it. I have ran PSK-31 by using VAC
> between PSDR-IQ and the digital program. I don't know if anyone has
> written the software for 56K. Would certainly be neat.
>
> Dave - WB6DHW
> <http://wb6dhw.com> <http://wb6dhw.com>
>
>
> On 3/18/2013 2:20 AM, wt4cm wrote:
>
>
>
> Is anyone using this UHFSDR for different data modes? I was reviewing the
> Part 97 rules yesterday and noticed that 56k is allowed on 220 and 440 MHz.
>
> It seems that it should be possible to do a high speed GMSK modem in
> software. Has anyone done this already? Has anyone tried implementing any
> other digital modes with this unit?
>
> Thanks,
>
> Chuck
> WT4CM
>
> _
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>
>

1515. RE: [UHFSDR] Data modes?

Yahoo group: UHFSDR
Date: 2013-03-18 19:03:16 UTC
From: MIKE DURKIN
Topic: 1509 Message: 1515

I could never get GNradio to install on windows .... or ubuntu.

Mike

To: UHFSDR@yahoogroups.com
From: hall.jamesr@...
Date: Mon, 18 Mar 2013 15:01:07 -0400
Subject: Re: [UHFSDR] Data modes?

I wonder if some exists within GNUradio. Seems like it should..

On Mon, Mar 18, 2013 at 2:48 PM, Dave <dave@...> wrote:

Chuck:

The hardware should be able to do it. I have ran PSK-31 by
using VAC between PSDR-IQ and the digital program. I don't know
if anyone has written the software for 56K. Would certainly be
neat.

Dave - WB6DHW

<http://wb6dhw.com>

On 3/18/2013 2:20 AM, wt4cm wrote:

Is anyone using this UHFSDR for different data modes? I
was reviewing the Part 97 rules yesterday and noticed that
56k is allowed on 220 and 440 MHz.

It seems that it should be possible to do a high speed
GMSK modem in software. Has anyone done this already? Has
anyone tried implementing any other digital modes with
this unit?

Thanks,

Chuck

WT4CM

–

1516. Re: [UHFSDR] Data modes?

Yahoo group: UHFSDR
Date: 2013-03-18 19:11:44 UTC
From: James Hall
Topic: 1509 Message: 1516

I've had problems in Windows. Still meaning to clear off one of my Ubuntu machines to try installing it on.

On Mon, Mar 18, 2013 at 3:03 PM, MIKE DURKIN <Patriot121@...> wrote:

> **
>
>
> I could never get GNradio to install on windows .... or ubuntu.
>
> Mike
>
> ---
> To: UHFSDR@yahoogroups.com
> From: hall.jamesr@...
> Date: Mon, 18 Mar 2013 15:01:07 -0400
> Subject: Re: [UHFSDR] Data modes?
>
>
>
> I wonder if some exists within GNUradio. Seems like it should..
>
>
> On Mon, Mar 18, 2013 at 2:48 PM, Dave <dave@...> wrote:
>
> **
>
>
> Chuck:
> The hardware should be able to do it. I have ran PSK-31 by using VAC
> between PSDR-IQ and the digital program. I don't know if anyone has
> written the software for 56K. Would certainly be neat.
>
> Dave - WB6DHW
> <http://wb6dhw.com> <http://wb6dhw.com>
>
>
> On 3/18/2013 2:20 AM, wt4cm wrote:
>
>
> Is anyone using this UHFSDR for different data modes? I was reviewing the
> Part 97 rules yesterday and noticed that 56k is allowed on 220 and 440 MHz.
>
> It seems that it should be possible to do a high speed GMSK modem in
> software. Has anyone done this already? Has anyone tried implementing any

> other digital modes with this unit?
>
> Thanks,
>
> Chuck
> WT4CM
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1517. Re: [UHFSDR] Data modes?

Yahoo group: UHFSDR
Date: 2013-03-18 19:16:30 UTC
From: Mathison Ott
Topic: 1509 Message: 1517

Might you consider generating the signal completely in software. THe
Raspberry Pi generates spread spectrum output on its GPio bus 1mhz
---200mhz.
There are examples:
"Hi all,
I've just joined the group and thought you might be interested in the "bare
bones" WSPR transmitter I've been working on.
It uses the technique from
http://www.icrobotics.co.uk/wiki/index.php/Turning_the_Raspberry_Pi_Into_an_FM_Transmitter
to
produce a WSPR signal directly on either the 2200m band or the 630m
band
(frequencies over 1MHz won't work.)
The output is a square wave so it must be filtered before going to an
antenna. I've also not put code in to turn off the transmitter if Ctrl-C is
pressed yet.
If anyone's interested, the code is at
https://github.com/DanAnkers/WsprryPi
Dan MD1CLV

If you can get the desired bandwidth out of a sound card.

73
Mathison Kj6dzb

On Mon, Mar 18, 2013 at 12:03 PM, MIKE DURKIN <Patriot121@...> wrote:

>
>
> I could never get GNradio to install on windows .... or ubuntu.
>
> Mike
>
> ---
> To: UHFSDR@yahoogroups.com
> From: hall.jamesr@...
> Date: Mon, 18 Mar 2013 15:01:07 -0400
> Subject: Re: [UHFSDR] Data modes?
>
>
>
> I wonder if some exists within GNUradio. Seems like it should..
>
>

> On Mon, Mar 18, 2013 at 2:48 PM, Dave <dave@wb6dhw.com> wrote:
>
>
>
> Chuck:
> The hardware should be able to do it. I have ran PSK-31 by using VAC
> between PSDR-IQ and the digital program. I don't know if anyone has
> written the software for 56K. Would certainly be neat.
>
> Dave - WB6DHW
> <http://wb6dhw.com> <http://wb6dhw.com>
>
>
> On 3/18/2013 2:20 AM, wt4cm wrote:
>
>
> Is anyone using this UHFSDR for different data modes? I was reviewing the
> Part 97 rules yesterday and noticed that 56k is allowed on 220 and 440 MHz.
>
> It seems that it should be possible to do a high speed GMSK modem in
> software. Has anyone done this already? Has anyone tried implementing any
> other digital modes with this unit?
>
> Thanks,
>
> Chuck
> WT4CM
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1518. Re: [UHFSDR] Data modes?

Yahoo group: UHFSDR
Date: 2013-03-19 03:09:16 UTC
From: Sid Boyce
Topic: 1509 Message: 1518

Was that trying to install from the repo or building it.

It's on my Ubuntu todo list.

I have it built and running on openSUSE. The last git version I built
was on 27th. Feb.
73 ... Sid.

On 18/03/13 19:03, MIKE DURKIN wrote:
>
> I could never get GNradio to install on windows .... or ubuntu.
>
> Mike
>
> ---
> To: UHFSDR@yahoogroups.com
> From: hall.jamesr@...
> Date: Mon, 18 Mar 2013 15:01:07 -0400
> Subject: Re: [UHFSDR] Data modes?
>
> I wonder if some exists within GNUradio. Seems like it should..
>
>
> On Mon, Mar 18, 2013 at 2:48 PM, Dave <dave@...
> <mailto:dave@...>> wrote:
>
>
> Chuck:
> The hardware should be able to do it. I have ran PSK-31 by
> using VAC between PSDR-IQ and the digital program. I don't know
> if anyone has written the software for 56K. Would certainly be neat.
>
> Dave - WB6DHW
> <http://wb6dhw.com> <http://wb6dhw.com>
>
>
> On 3/18/2013 2:20 AM, wt4cm wrote:
>
> Is anyone using this UHFSDR for different data modes? I was
> reviewing the Part 97 rules yesterday and noticed that 56k is
> allowed on 220 and 440 MHz.
>
> It seems that it should be possible to do a high speed GMSK
> modem in software. Has anyone done this already? Has anyone
> tried implementing any other digital modes with this unit?
>

> Thanks,
>
> Chuck
> WT4CM
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--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1519. RE: [UHFSDR] Data modes?

Yahoo group: UHFSDR
Date: 2013-03-19 04:26:32 UTC
From: MIKE DURKIN
Topic: 1509 Message: 1519

building ...

To: UHFSDR@yahoogroups.com
From: sboyce@...
Date: Tue, 19 Mar 2013 03:09:16 +0000
Subject: Re: [UHFSDR] Data modes?

Was that trying to install from the
repo or building it.

It's on my Ubuntu todo list.

I have it built and running on openSUSE. The last git version I
built was on 27th. Feb.

73 ... Sid.

On 18/03/13 19:03, MIKE DURKIN wrote:

I could never get GNradio to install on
windows .... or ubuntu.

Mike

To: UHFSDR@yahoogroups.com

From: hall.jamesr@...

Date: Mon, 18 Mar 2013 15:01:07 -0400

Subject: Re: [UHFSDR] Data modes?

I wonder if some exists
within GNUradio. Seems like it should..

On Mon, Mar 18, 2013
at 2:48 PM, Dave <dave@...>
wrote:

Chuck:

The hardware should be able to do
it. I have ran PSK-31 by using VAC
between PSDR-IQ and the digital
program. I don't know if anyone has
written the software for 56K. Would
certainly be neat.

Dave - WB6DHW

<http://wb6dhw.com>

On 3/18/2013 2:20 AM, wt4cm wrote:

Is anyone using this UHFSDR
for different data modes? I was
reviewing the Part 97 rules
yesterday and noticed that 56k
is allowed on 220 and 440 MHz.

It seems that it should be
possible to do a high speed GMSK
modem in software. Has anyone
done this already? Has anyone
tried implementing any other
digital modes with this unit?

Thanks,

Chuck

WT4CM

–

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1520. Re: Data modes?

Yahoo group: UHFSDR
Date: 2013-03-19 09:17:53 UTC
From: wt4cm
Topic: 1509 Message: 1520

All,

I'm really excited to see such interest in this.

Right now I'm reading up trying to decide whether it would be easier to attack this from the RPi side and using filters (like this: http://www.wa4dsy.net/56kb/56kpaper.html) or to continue attempting to generate the signal entirely in software.

I think it might be easier to follow the hardware path, but it will be much less flexible than if I can accomplish it with software.

I think I'll start installing software to see what I can come up with.

Anyone else have thoughts or suggestions on the best way to proceed?

Chuck
WT4CM

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
> building ...
>
> To: UHFSDR@yahoogroups.com
> From: sboyce@...
> Date: Tue, 19 Mar 2013 03:09:16 +0000
> Subject: Re: [UHFSDR] Data modes?
>
> Was that trying to install from the
> repo or building it.
>
> It's on my Ubuntu todo list.
>
> I have it built and running on openSUSE. The last git version I
> built was on 27th. Feb.
>
> 73 ... Sid.
>
>
>
> On 18/03/13 19:03, MIKE DURKIN wrote:

>
> I could never get GNradio to install on
> windows .... or ubuntu.
>
>
>

> Mike
>
>
>
>
> To: UHFSDR@yahoogroups.com
>
> From: hall.jamesr@...
>
> Date: Mon, 18 Mar 2013 15:01:07 -0400
>
> Subject: Re: [UHFSDR] Data modes?
>
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>
> I wonder if some exists
> within GNUradio. Seems like it should..
>
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> On Mon, Mar 18, 2013
> at 2:48 PM, Dave <dave@...>
> wrote:
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> Chuck:
>
> The hardware should be able to do
> it. I have ran PSK-31 by using VAC
> between PSDR-IQ and the digital
> program. I don't know if anyone has
> written the software for 56K. Would
> certainly be neat.
>
>
>
> Dave - WB6DHW
>
> <http://wb6dhw.com>

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>
> On 3/18/2013 2:20 AM, wt4cm wrote:
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>
> Is anyone using this UHFSDR
> for different data modes? I was
> reviewing the Part 97 rules
> yesterday and noticed that 56k
> is allowed on 220 and 440 MHz.
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>
> It seems that it should be
> possible to do a high speed GMSK
> modem in software. Has anyone
> done this already? Has anyone
> tried implementing any other
> digital modes with this unit?
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> Thanks,
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> Chuck
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> WT4CM
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> --
> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
> Senior Staff Specialist, Cricket Coach
> Microsoft Windows Free Zone - Linux used for all Computing Tasks
>

1521. Re: Data modes?

Yahoo group: UHFSDR
Date: 2013-03-19 09:29:52 UTC
From: wt4cm
Topic: 1509 Message: 1521

GMSK is one of many digital modes that is a form of FM, so if I understand things correctly, gain flatness is not required (low phase error is, however, and the higher the data rate, the more important it will become).

You are right that it is a lot of calculations. Maybe there is a way to simplify things. I guess I have more research to do there. Maybe the solution is lookup tables rather than calculations.

Does anyone else out there have experience demodulation FM on the UHFSDR? How did you handle the phase error problem?

Chuck
WT4CM

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
> im not aware of it .... but the only real problem i can think of is gain flatness for the sound source ....
>
> and .... i m not sure if you must send in FM.
>
> Im not sure many computers will be up to the task of sending 96Khz of I/Q of FM modulation, the math is abit more involved ...
>
> at least that's what strikes me as such ....
>
> I use my UHFSDR with ghpsdr3-alex(ubuntu) and i cant demodulate FM for some reason ...
>
> I might have a I/Q phase error larger than what the program can handle(actually programed - i suspect that it could) .... others have commented on phase error and unknown why. though i do suspect its something to do with the relay's you might get and the configuration needed for said relays --- the kit can be built with .... ummm two different relays now. Was three but one has terible noise floor for some reason (going by memory(bad idea) .. and what some one else said) ...
>
> Wish more programs would be re-writen to use quadature schems ... it would be great to use MixW directly rather needing one program to demodulate the I/Q stream and then another to demod the information of the packets.
>
> So i say .. have at it !!!!! 48k baud is still better than 1.2K ....
>
> Mike KC7NOA
>
>
>
> To: UHFSDR@yahoogroups.com

> From: wt4cm@...
> Date: Mon, 18 Mar 2013 16:42:42 +0000
> Subject: [UHFSDR] Re: Data modes?
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>
> This old hardware packet modem used MSK and is 70 KHz wide at 26 dB down (http://www.wa4dsy.net/56kb/56kpaper.html). GMSK should use less bandwidth.
>
>
>
> If i understand correctly, with a soundcard sampling at 192kHz, a 96kHz wide signal is possible. That might be ambitious, though, so that's why I'm asking what's been done up to this point.
>
>
>
> Chuck
>
> WT4CM
>
>
>
> --- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@> wrote:
>

> >
>
> > whats the bandwidth at 56K?
>
> >
>
> > Will your soundcard deliver that information to the UHFSDR ?
>
> >
>
> > Mike KC7NOA
>
> >
>
> > To: UHFSDR@yahoogroups.com
>
> > From: wt4cm@
>
> > Date: Mon, 18 Mar 2013 09:20:14 +0000
>
> > Subject: [UHFSDR] Data modes?
>
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>
> > Is anyone using this UHFSDR for different data modes? I was reviewing the Part 97 rules yesterday and noticed that 56k is allowed on 220 and 440 MHz.
>
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>
> > It seems that it should be possible to do a high speed GMSK modem in software. Has anyone done this already? Has anyone tried implementing any other digital modes with this unit?
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> > Thanks,
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> > Chuck
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> >
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> > WT4CM
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1522. Re: [UHFSDR] FW: Help with SI570

Yahoo group: UHFSDR
Date: 2013-03-19 13:36:13 UTC
From: Mansueto Grech
Topic: 1491 Message: 1522

Hi Dave and all,
Thanks for the reply and sorry I did not answer before but due to work commitments I was kept away from the shack.
I managed to get a hold of a Tektronics 2465B 400Mhz Scope and verified that yes the signal is square wave and more or less the values are there.
I would like to thank all that made the suggestions and last but not least you Dave for the explanation.
Thank again Guys
Mans. 9H1GB

On 12 March 2013 23:42, Dave <dave@wb6dhw.com> wrote:

> **
>
>
> Mansueto:
> A 35 MHz scope is too slow to show the harmonics of the 19.982 MHz that
> make up the squarewave. So you see a sinewave because you are not seeing
> the harmonics. .68VP_P is a little low, but probably OK as a 35 MHz scope
> is probably down 1 or 2 dB ar 20 MHz. How are you triggering your scope.
> If you are using internal trigger and alternate mode, they could appear to
> be in phase. The Si571 has a modulation input pin. On the Si570, that pin
> is a no connect.
>
>
> Dave - WB6DHW
> <http://wb6dhw.com> <http://wb6dhw.com>
>
> On 3/12/2013 8:27 AM, Mansueto Grech wrote:
>
>
>
> Hi Dave,
> My Frequency Counter is an EIP548a.
> I have checked R46-49 and are OK And yes they are in phase how I don't
> Know. C59 and 60 are 0 ohms.
> I am grounding using a screw with a tag in one of the 4 holes on the board.
> MY scope is a dual trace scope and is a Hameg HM303-6 35Mhz. Amplitude is
> .68 PtoP and sinewave.
>
> Dave I am studying the schematics and I see that R26 (0 ohms) is
> included for the SI570 but My Installation Manual say not to install unless
> you are using an SI571 Step52. Is this correct?
> 73's and Thanks
> Mans. 9H1GB

>
> On 12 March 2013 02:34, Dave <dave@...> wrote:
>
>>
>>
>> Mans:
>> What are you using to measure the frequency? Both test points are the
>> same frequency. It should be 19.982 MHz. TP8 and TP9 can't be in phase if
>> R46-R49 and C59 and C60 are properly installed. Note that for LVPECL, C59
>> and C60 are 0 ohm resisters! Where is your ground connected and are you
>> using a dual trace oscilloscope? If so, make sure you are not in alternate
>> trace mode. You need both traces to start at the same time. Trigger from
>> TP8 or TP9. To see a good square wave at 20 MHz, you need at least a 100
>> MHz scope. What amplitudes are you seeing at TP8 and TP9?
>>
>> Dave - WB6DHW
>> <http://wb6dhw.com> <http://wb6dhw.com>
>>
>>
>> On 3/11/2013 3:40 PM, The Silver Fox wrote:
>>
>>
>>
>> Any advice for this builder?
>>
>> 73,
>>
>> Alan – W6ARH
>>
>>
>>
>>
>>
>> *From:* Mansueto Grech [mailto:mansueto.grech@...<mansueto.grech@...>]
>>
>> *Sent:* Monday, March 11, 2013 3:24 PM
>> *To:* Alan Hill
>> *Subject:* Re: Help with SI570
>>
>>
>>
>> Hi Alan,
>>
>> Today I found some time and continued on the UHFSDR.
>>
>> Unfortunately I encountered a problem.
>>
>> I am now at steps 65-69
>>
>> my problem is as follows

>>
>> We have determined that the SI570 supplied is an LVPECL.
>>
>> Steps 65 & 55the frequency is 20.000 MHz and 20.023Mhz respectively but
>> not squarewave
>>
>> step 67 the dc offset is more or less OK
>>
>> but step 68 tp8 and tp9 are not out of phase.
>>
>>
>>
>> Can you be so kind as to ehelp me with this
>>
>> Thank you in advance and 73's
>>
>> Mans. 9H1GB
>>
>>
>>
>>
>>
>> On 25 February 2013 16:45, Alan Hill <alan.r.hill@...> wrote:
>>
>> Mans,
>>
>> The SDR2GO documentation says that you can use the Si570 either way.
>> You do not have to remove it if installed on the UHFSDR. However, if you
>> have not installed it, then you can use it on the SDR2GO instead of on the
>> UHFSDR board. You need an upvertor if you want to xmit.
>>
>> If you want to receive only, consider the funcube or any of the RTL2832
>> USB sticks.
>> 73,
>>
>> Alan - W6ARH
>>
>>
>>
>> On Sun, Feb 24, 2013 at 11:22 PM, Mansueto Grech <
>> mansueto.grech@...> wrote:
>>
>> Hi Alan,
>>
>> Thank for the info.
>>
>> My main aim is to use both from home and portable but mainly portable in
>> conjunction with my Microwave transverters, although I still have to
>> somehow increase the rang to 1.3Ghz for my 24GHz transverter.
>>

>>
>>
>> I try to document my self on the two systems and at a later stage decide.
>> maybe, as you said something else might crop up.
>>
>>
>>
>> Oh one other thing if I may, I was reading the SDR2usb presentation and
>> if I recollect correctly the author said that, an this is from memory, to
>> not use the S570 on the UHFSDR but instead use the one on the Board. If so
>> by adding the transformer and not enabling the SI570 will work or I need to
>> take the SI570 off the board.
>>
>>
>>
>> Thank you very very much for you help and assistance.
>>
>>
>>
>> 73's
>>
>> Mans. 9H1GB
>>
>>
>>
>> On 25 February 2013 00:08, The Silver Fox <alan.r.hill@gmail.com> wrote:
>>
>> You are correct on the specifications of the Si570. The SDR Widget is
>> superior to any other sound system. I am not clear on whether or not you
>> can still purchase them. See the sdr-widget group to answer that
>> question. The USBS2SDR is designed to provide the sound and computation
>> for SDR users and to assist in making the system more portable. So, if you
>> want the optimum and intend to work in a shack, the widget is what I would
>> recommend. However, if you want simplicity and portability, then look into
>> the USB2SDR. I am looking into the less expensive solutions with
>> portability as one of the parameters.
>>
>> The board makers are iterating to smaller and more powerful processors
>> all the time. Secondly, they are integrating better and better A/D and
>> sound chips. Hopefully, the SDR designers will migrate to emerging better
>> technologies.
>>
>> 73,
>>
>> Alan – W6ARH
>>
>>
>>
>>
>>

>> *From:* Mansueto Grech [mailto:mansueto.grech@...]
>> *Sent:* Sunday, February 24, 2013 1:18 PM
>> *To:* The Silver Fox
>> *Subject:* Re: Help with SI570
>>
>>
>>
>> Hi Alan,
>>
>> Thanks for the info.
>>
>> Please see attached pic and, If I am not asking too much, confirm if I am
>> correct or not Please.
>>
>> I see AAA000514G
>>
>> So it is a 3.3V LVPECL, temp stability 50ppm total stability61.5ppm,
>> 10-945, 970-1134, 1213-1417.5 MHz,etc.
>>
>> One other thing I am reading that there are couple of systems that
>> USB2SDR and SDR Widget, Which in your opinion is the best of the too?
>>
>> Thank you very much for your help and assistance
>>
>> 73's
>>
>> Mans. 9H1GB
>>
>>
>>
>>
>>
>> On 24 February 2013 17:41, The Silver Fox <alan.r.hill@...> wrote:
>>
>> I’ve included the specification which contains the info on how to decode
>> the chip ID. Thanks for the reminder on the chips. I’m not reliable on
>> estimates but do plan to clean up my act this week.
>>
>> 73,
>>
>> ALAN – w6arh
>>
>>
>>
>>
>>
>> *From:* Mansueto Grech [mailto:mansueto.grech@...]
>> *Sent:* Sunday, February 24, 2013 7:35 AM
>> *To:* The Silver Fox
>> *Subject:* Help with SI570

>>
>>
>>
>> Hi Alan,
>>
>> Sorry to bother you again but I have just soldered the SI570 and on
>> steps 56 to 63 and Wish to ask you how do I identfy the SI570 if it is an
>> LVDS or LVPECL output?
>>
>>
>>
>> One other thing Can I Please remind you about the 10uf 0805 chips please
>>
>> Thank you in advance and 73's
>>
>>
>>
>> Mans. 9H1GB
>>
>> On 16 February 2013 23:50, The Silver Fox <alan.r.hill@...> wrote:
>>
>> I can help. Please give me a day or two to get back to you.
>>
>> 73,
>>
>> Alan - W6ARH
>>
>>
>>
>>
>>
>> Hi Alan,
>>
>> I got round to building the UHFSDR FINALLY.
>>
>>
>> Alan I need your help cause whilst sorting out the parts I seem to have
>> misplaced some of the 10uf 0805 Chips.
>>
>> Is it possible for me to purchase from you some more as they seem to be
>> lacking here.
>>
>> I need about 2 but If I can get some more as spare Would be even better.
>>
>> Can you assist me please.
>>
>> Thank you in advance
>>
>> Mans. 9H1GB
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1523. New file uploaded to UHFSDR

Yahoo group: UHFSDR
Date: 2013-03-21 06:11:20 UTC
From: UHFSDR@yahoogroups.com
Topic: 2 Message: 1523

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the UHFSDR
group.

File : /UHFSDR Documentation /UHF_SDR Assembly Manual-with SV1OBT suggestions.doc
Uploaded by : brainerdd <dave@...>
Description : updated assembly manual with pictures

You can access this file at the URL:
http://groups.yahoo.com/group/UHFSDR/files/UHFSDR%20Documentation%20/UHF_SDR%20Assembly%20Manual-with%20SV1OBT%20suggestions.doc

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

brainerdd <dave@...>

1524. RE: [UHFSDR] Re: Data modes?

Yahoo group: UHFSDR
Date: 2013-03-23 21:56:29 UTC
From: MIKE DURKIN
Topic: 1509 Message: 1524

well ..you could use a card that has a audio codec like tlv320 and program the phase error out ...

The SDR2Go and ??? can do that ... but i don't think it is at this moment capable of outputting more than 2.8Khz -- its just the way its programmed at this time and they (AQRP) are not keen on giving out the code for the dsPic ...

Something like that wouldn't care about what the audio spectrum was .... just a block phase error correction and image rejection would be done by the dsPIC/tlv320 ... and the computer take care of the further demodulation if needed/wanted.

They also do not have any computer control at this time -- something that iv mentioned before.

The response was "that it says right on the board -- "look ma -- no computer"" --- which i think is a bit short sighted..

i do kinda wish there was something avaliable that was under 100$$

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: wt4cm@...
Date: Tue, 19 Mar 2013 09:29:52 +0000
Subject: [UHFSDR] Re: Data modes?

GMSK is one of many digital modes that is a form of FM, so if I understand things correctly, gain flatness is not required (low phase error is, however, and the higher the data rate, the more important it will become).

You are right that it is a lot of calculations. Maybe there is a way to simplify things. I guess I have more research to do there. Maybe the solution is lookup tables rather than calculations.

Does anyone else out there have experience demodulation FM on the UHFSDR? How did you handle the phase error problem?

Chuck

WT4CM

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:

>

> im not aware of it .... but the only real problem i can think of is gain flatness for the sound source ....

>

> and .... i m not sure if you must send in FM.

>

> Im not sure many computers will be up to the task of sending 96Khz of I/Q of FM modulation, the math is abit more involved ...

>

> at least that's what strikes me as such ....

>

> I use my UHFSDR with ghpsdr3-alex(ubuntu) and i cant demodulate FM for some reason ...

>

> I might have a I/Q phase error larger than what the program can handle(actually programed - i suspect that it could) .... others have commented on phase error and unknown why. though i do suspect its something to do with the relay's you might get and the configuration needed for said relays --- the kit can be built with .... ummm two different relays now. Was three but one has terible noise floor for some reason (going by memory(bad idea) .. and what some one else said) ...

>

> Wish more programs would be re-writen to use quadature schems ... it would be great to use MixW directly rather needing one program to demodulate the I/Q stream and then another to demod the information of the packets.

>

> So i say .. have at it !!!!! 48k baud is still better than 1.2K ....

>

> Mike KC7NOA

>

>

>

> To: UHFSDR@yahoogroups.com

> From: wt4cm@...

> Date: Mon, 18 Mar 2013 16:42:42 +0000

> Subject: [UHFSDR] Re: Data modes?

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> This old hardware packet modem used MSK and is 70 KHz wide at 26 dB down (http://www.wa4dsy.net/56kb/56kpaper.html). GMSK should use less bandwidth.

>

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>

> If i understand correctly, with a soundcard sampling at 192kHz, a 96kHz wide signal is possible. That might be ambitious, though, so that's why I'm asking what's been done up to this point.

>

>

>

> Chuck

>

> WT4CM

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> --- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@> wrote:

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> > whats the bandwidth at 56K?

>

> >

>

> > Will your soundcard deliver that information to the UHFSDR ?

>

> >

>

> > Mike KC7NOA

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> >

>

> > To: UHFSDR@yahoogroups.com

>

> > From: wt4cm@

>

> > Date: Mon, 18 Mar 2013 09:20:14 +0000

>

> > Subject: [UHFSDR] Data modes?

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> > Is anyone using this UHFSDR for different data modes? I was reviewing the Part 97 rules yesterday and noticed that 56k is allowed on 220 and 440 MHz.

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> > It seems that it should be possible to do a high speed GMSK modem in software. Has anyone done this already? Has anyone tried implementing any other digital modes with this unit?

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> > Thanks,

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> > Chuck

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> > WT4CM

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1525. Re: [UHFSDR] Re: Data modes?

Yahoo group: UHFSDR
Date: 2013-03-23 22:27:05 UTC
From: Sid Boyce
Topic: 1509 Message: 1525

http://groups.yahoo.com/group/AQRP/files/SDR2GO%20Archive/ with the
latest 1.9.2 code and
SDR2GO Builders Notes.pdf which describes the whole operation.
73 ... Sid.

On 23/03/13 21:56, MIKE DURKIN wrote:
>
> well ..you could use a card that has a audio codec like tlv320 and
> program the phase error out ...
>
> The SDR2Go and ??? can do that ... but i don't think it is at this
> moment capable of outputting more than 2.8Khz -- its just the way its
> programmed at this time and they (AQRP) are not keen on giving out the
> code for the dsPic ...
>
> Something like that wouldn't care about what the audio spectrum was
> .... just a block phase error correction and image rejection would be
> done by the dsPIC/tlv320 ... and the computer take care of the further
> demodulation if needed/wanted.
>
> They also do not have any computer control at this time -- something
> that iv mentioned before.
>
> The response was "that it says right on the board -- "look ma -- no
> computer"" --- which i think is a bit short sighted..
>
> i do kinda wish there was something avaliable that was under 100$$
>
> Mike KC7NOA
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> ---
> To: UHFSDR@yahoogroups.com
> From: wt4cm@...
> Date: Tue, 19 Mar 2013 09:29:52 +0000
> Subject: [UHFSDR] Re: Data modes?
>
>
> GMSK is one of many digital modes that is a form of FM, so if I
> understand things correctly, gain flatness is not required (low phase
> error is, however, and the higher the data rate, the more important it
> will become).

>
> You are right that it is a lot of calculations. Maybe there is a way
> to simplify things. I guess I have more research to do there. Maybe
> the solution is lookup tables rather than calculations.
>
> Does anyone else out there have experience demodulation FM on the
> UHFSDR? How did you handle the phase error problem?
>
> Chuck
> WT4CM
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, MIKE
> DURKIN <Patriot121@...> wrote:
> >
> > im not aware of it .... but the only real problem i can think of is
> gain flatness for the sound source ....
> >
> > and .... i m not sure if you must send in FM.
> >
> > Im not sure many computers will be up to the task of sending 96Khz
> of I/Q of FM modulation, the math is abit more involved ...
> >
> > at least that's what strikes me as such ....
> >
> > I use my UHFSDR with ghpsdr3-alex(ubuntu) and i cant demodulate FM
> for some reason ...
> >
> > I might have a I/Q phase error larger than what the program can
> handle(actually programed - i suspect that it could) .... others have
> commented on phase error and unknown why. though i do suspect its
> something to do with the relay's you might get and the configuration
> needed for said relays --- the kit can be built with .... ummm two
> different relays now. Was three but one has terible noise floor for
> some reason (going by memory(bad idea) .. and what some one else said) ...
> >
> > Wish more programs would be re-writen to use quadature schems ... it
> would be great to use MixW directly rather needing one program to
> demodulate the I/Q stream and then another to demod the information of
> the packets.
> >
> > So i say .. have at it !!!!! 48k baud is still better than 1.2K ....
> >
> > Mike KC7NOA
> >
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> >
> > To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> > From: wt4cm@...
> > Date: Mon, 18 Mar 2013 16:42:42 +0000
> > Subject: [UHFSDR] Re: Data modes?

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> down (http://www.wa4dsy.net/56kb/56kpaper.html). GMSK should use less
> bandwidth.
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> >
> > If i understand correctly, with a soundcard sampling at 192kHz, a
> 96kHz wide signal is possible. That might be ambitious, though, so
> that's why I'm asking what's been done up to this point.
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> >
> > Chuck
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> > WT4CM
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> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
> MIKE DURKIN <Patriot121@> wrote:
> >
> > >

> >
> > > whats the bandwidth at 56K?
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> >
> > > Will your soundcard deliver that information to the UHFSDR ?
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> > > Mike KC7NOA
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> > > To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> >
> > > From: wt4cm@
> >
> > > Date: Mon, 18 Mar 2013 09:20:14 +0000
> >
> > > Subject: [UHFSDR] Data modes?
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> > > Is anyone using this UHFSDR for different data modes? I was
> reviewing the Part 97 rules yesterday and noticed that 56k is allowed
> on 220 and 440 MHz.
> >
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> >
> > > It seems that it should be possible to do a high speed GMSK modem
> in software. Has anyone done this already? Has anyone tried
> implementing any other digital modes with this unit?
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> > > Thanks,
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> > > Chuck
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> > > WT4CM
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Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1526. RE: [UHFSDR] Re: Data modes?

Yahoo group: UHFSDR
Date: 2013-03-23 22:57:29 UTC
From: MIKE DURKIN
Topic: 1509 Message: 1526

Sorry Sid ... thats just the binary(hex) to install the firmware .... they dont keep the Microchip code there .....

i have no idea of how to reverse decode hex ..... iv head of the process .... im not that good.....

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: sboyce@...
Date: Sat, 23 Mar 2013 22:27:05 +0000
Subject: Re: [UHFSDR] Re: Data modes?

http://groups.yahoo.com/group/AQRP/files/SDR2GO%20Archive/
with the latest 1.9.2 code and

SDR2GO Builders Notes.pdf which describes the whole operation.

73 ... Sid.

On 23/03/13 21:56, MIKE DURKIN wrote:

well ..you could use a card that has a audio
codec like tlv320 and program the phase error out ...

The SDR2Go and ??? can do that ... but i don't think it
is at this moment capable of outputting more than 2.8Khz
-- its just the way its programmed at this time and they
(AQRP) are not keen on giving out the code for the dsPic
...

Something like that wouldn't care about what the audio
spectrum was .... just a block phase error correction and
image rejection would be done by the dsPIC/tlv320 ... and
the computer take care of the further demodulation if
needed/wanted.

They also do not have any computer control at this time --
something that iv mentioned before.

The response was "that it says right on the board -- "look
ma -- no computer"" --- which i think is a bit short
sighted..

i do kinda wish there was something avaliable that was
under 100$$

Mike KC7NOA

To: UHFSDR@yahoogroups.com

From: wt4cm@...

Date: Tue, 19 Mar 2013 09:29:52 +0000

Subject: [UHFSDR] Re: Data modes?

GMSK is one of many digital modes that is a form of FM, so if I understand things correctly, gain flatness is not required (low phase error is, however, and the higher the data rate, the more important it will become).

You are right that it is a lot of calculations. Maybe there is a way to simplify things. I guess I have more research to do there. Maybe the solution is lookup tables rather than calculations.

Does anyone else out there have experience demodulation FM on the UHFSDR? How did you handle the phase error problem?

Chuck

WT4CM

--- In UHFSDR@yahoogroups.com,
MIKE DURKIN <Patriot121@...> wrote:

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> So i say .. have at it !!!!! 48k baud is
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> Mike KC7NOA

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> From: wt4cm@...

> Date: Mon, 18 Mar 2013 16:42:42 +0000

> Subject: [UHFSDR] Re: Data modes?

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> > WT4CM

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Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
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Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1527. Re: [UHFSDR] Re: Data modes?

Yahoo group: UHFSDR
Date: 2013-03-23 23:14:56 UTC
From: Sid Boyce
Topic: 1509 Message: 1527

OK....
http://groups.yahoo.com/group/AQRP/files/W8NUE/
SDR2GO.zip dsPIC and SH32 Source code
73 ... Sid.

On 23/03/13 22:57, MIKE DURKIN wrote:
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> they dont keep the Microchip code there .....
>
> i have no idea of how to reverse decode hex ..... iv head of the
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> ---
> To: UHFSDR@yahoogroups.com
> From: sboyce@...
> Date: Sat, 23 Mar 2013 22:27:05 +0000
> Subject: Re: [UHFSDR] Re: Data modes?
>
>
> http://groups.yahoo.com/group/AQRP/files/SDR2GO%20Archive/ with the
> latest 1.9.2 code and
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> Maybe the solution is lookup tables rather than calculations.
>
> Does anyone else out there have experience demodulation FM on the
> UHFSDR? How did you handle the phase error problem?
>
> Chuck
> WT4CM
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
> MIKE DURKIN <Patriot121@...> <mailto:Patriot121@...> wrote:
> >
> > im not aware of it .... but the only real problem i can think of
> is gain flatness for the sound source ....
> >
> > and .... i m not sure if you must send in FM.
> >
> > Im not sure many computers will be up to the task of sending
> 96Khz of I/Q of FM modulation, the math is abit more involved ...
> >
> > at least that's what strikes me as such ....
> >
> > I use my UHFSDR with ghpsdr3-alex(ubuntu) and i cant demodulate
> FM for some reason ...
> >

> > I might have a I/Q phase error larger than what the program can
> handle(actually programed - i suspect that it could) .... others
> have commented on phase error and unknown why. though i do suspect
> its something to do with the relay's you might get and the
> configuration needed for said relays --- the kit can be built with
> .... ummm two different relays now. Was three but one has terible
> noise floor for some reason (going by memory(bad idea) .. and what
> some one else said) ...
> >
> > Wish more programs would be re-writen to use quadature schems
> ... it would be great to use MixW directly rather needing one
> program to demodulate the I/Q stream and then another to demod the
> information of the packets.
> >
> > So i say .. have at it !!!!! 48k baud is still better than 1.2K ....
> >
> > Mike KC7NOA
> >
> >
> >
> > To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> > From: wt4cm@...
> > Date: Mon, 18 Mar 2013 16:42:42 +0000
> > Subject: [UHFSDR] Re: Data modes?
> >
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> >
> > This old hardware packet modem used MSK and is 70 KHz wide at 26
> dB down (http://www.wa4dsy.net/56kb/56kpaper.html). GMSK should
> use less bandwidth.
> >
> >
> >
> > If i understand correctly, with a soundcard sampling at 192kHz,
> a 96kHz wide signal is possible. That might be ambitious, though,
> so that's why I'm asking what's been done up to this point.
> >
> >
> >
> > Chuck
> >
> > WT4CM
> >
> >
> >
> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>,
> MIKE DURKIN <Patriot121@> wrote:
> >
> > >
> >
> > > whats the bandwidth at 56K?
> >
> > >
> >
> > > Will your soundcard deliver that information to the UHFSDR ?
> >
> > >
> >
> > > Mike KC7NOA
> >
> > >
> >
> > > To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> >
> > > From: wt4cm@
> >
> > > Date: Mon, 18 Mar 2013 09:20:14 +0000
> >
> > > Subject: [UHFSDR] Data modes?
> >
> > >
> >
> > >
> >
> > > Is anyone using this UHFSDR for different data modes? I was

> reviewing the Part 97 rules yesterday and noticed that 56k is
> allowed on 220 and 440 MHz.
> >
> > >
> >
> > >
> >
> > > It seems that it should be possible to do a high speed GMSK
> modem in software. Has anyone done this already? Has anyone tried
> implementing any other digital modes with this unit?
> >
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> >
> > > Thanks,
> >
> > >
> >
> > >
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> > >
> >
> > > Chuck
> >
> > >
> >
> > > WT4CM
> >
> > >
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>
>
> --
> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
> Senior Staff Specialist, Cricket Coach
> Microsoft Windows Free Zone - Linux used for all Computing Tasks
>
>

--
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1528. Receive IQ balance

Yahoo group: UHFSDR
Date: 2013-03-29 15:45:12 UTC
From: rhillard@...
Topic: 1528 Message: 1528

Hi,

I'm using the UHFSDR board to feed a SDR2GO board, and am having difficulties in getting a good receive IQ null; in fact I can't get a null at all.

I can insert a signal into the IQ receive port of my SDR2GO board from my IQGen program and get a nice null using the SDR2GO's balance controls. However it appears that either I don't have enough range on the SDR2GO's controls, or there's something wrong with the UHFSDR's IQ circuitry.

The combination of the UHFSDR and SDR2GO boards receives quite well, but I can't get rid of the image.

Has anyone else had this problem, or maybe have a suggestion as to how to correct the problem?

TNX Bob WA6UFQ

1529. RE: [UHFSDR] Receive IQ balance

Yahoo group: UHFSDR
Date: 2013-03-29 16:08:11 UTC
From: MIKE DURKIN
Topic: 1528 Message: 1529

make sure you dont have a bridge on left/right ....

I didnt have this problem ....

To: UHFSDR@yahoogroups.com
From: rhillard@...
Date: Fri, 29 Mar 2013 15:45:12 +0000
Subject: [UHFSDR] Receive IQ balance

Hi,

I'm using the UHFSDR board to feed a SDR2GO board, and am having difficulties in getting a good receive IQ null; in fact I can't get a null at all.

I can insert a signal into the IQ receive port of my SDR2GO board from my IQGen program and get a nice null using the SDR2GO's balance controls. However it appears that either I don't have enough range on the SDR2GO's controls, or there's something wrong with the UHFSDR's IQ circuitry.

The combination of the UHFSDR and SDR2GO boards receives quite well, but I can't get rid of the image.

Has anyone else had this problem, or maybe have a suggestion as to how to correct the problem?

TNX Bob WA6UFQ

1530. Re: [UHFSDR] Receive IQ balance

Yahoo group: UHFSDR
Date: 2013-03-29 19:39:19 UTC
From: Dave
Topic: 1528 Message: 1530

Bob:
Must be something not right in your I/Q generator section or the audio section. A solder joint perhaps or a short. Do you have equal output on both channels? Are the LO inputs to the mixers 90 degrees apart? I get 20 to 30 dB sideband rejection on 440 MHz with no null adjustment.

Dave - WB6DHW
<http://wb6dhw.com>

On 3/29/2013 8:45 AM, rhillard@... wrote:
>
> Hi,
>
> I'm using the UHFSDR board to feed a SDR2GO board, and am having
> difficulties in getting a good receive IQ null; in fact I can't get a
> null at all.
>
> I can insert a signal into the IQ receive port of my SDR2GO board from
> my IQGen program and get a nice null using the SDR2GO's balance
> controls. However it appears that either I don't have enough range on
> the SDR2GO's controls, or there's something wrong with the UHFSDR's IQ
> circuitry.
>
> The combination of the UHFSDR and SDR2GO boards receives quite well,
> but I can't get rid of the image.
>
> Has anyone else had this problem, or maybe have a suggestion as to how
> to correct the problem?
>
> TNX Bob WA6UFQ
>
> _

1531. Re: Receive IQ balance

Yahoo group: UHFSDR
Date: 2013-03-30 21:58:12 UTC
From: Hank
Topic: 1528 Message: 1531

Bob,

I was having the exact same problem with image rejection on my SDR2Go and traced it down to a bad channel on U10A/B the MC3307B Line in. One half of the unit was working and I was getting the I without the Q. I traced it down with an o-scope seeing the same input at the MC3307 on pins 3&5 but the output on pin 1 was not aplified as was on pin 7. Replacing the MC3307 fixed my problem.

Good luck and 73,

Hank - wz3hmt

--- In UHFSDR@yahoogroups.com, rhillard@... wrote:
>
> Hi,
>
> I'm using the UHFSDR board to feed a SDR2GO board, and am having difficulties in getting a good receive IQ null; in fact I can't get a null at all.
>
> I can insert a signal into the IQ receive port of my SDR2GO board from my IQGen program and get a nice null using the SDR2GO's balance controls. However it appears that either I don't have enough range on the SDR2GO's controls, or there's something wrong with the UHFSDR's IQ circuitry.
>
> The combination of the UHFSDR and SDR2GO boards receives quite well, but I can't get rid of the image.
>
> Has anyone else had this problem, or maybe have a suggestion as to how to correct the problem?
>
>
> TNX Bob WA6UFQ
>

1532. HMC482 output

Yahoo group: UHFSDR
Date: 2013-04-04 11:27:13 UTC
From: Sid Boyce
Topic: 1532 Message: 1532

Hi Dave,
I have just been reading operation.doc and it says a 100 ohm resistor needs to be placed between the output and ground to stop it oscillating.

The circuit diagram I have has only L1 and C16 connected to HMC482 pin3.

A previous attempt connecting a 20W PA caused some sort of feedback loop which killed the HMC482.

I am about to connect a 1W PA (needing 1mW input) through a 18dB attenuator so I guess I need to install the 100 ohm resistor at the output of the HMC482.

I had not seen this requirement previously.
73 ... Sid.

--
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Senior Staff Specialist, Cricket Coach
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1533. Re: [UHFSDR] HMC482 output

Yahoo group: UHFSDR
Date: 2013-04-04 19:03:16 UTC
From: Dave
Topic: 1532 Message: 1533

Sid:
During prototype, I found the oscillation when the HMC482 output was open during receive. The attenuator should provide the needed load if connected right after the HMC482 before the TR switch.

Dave - WB6DHW
<http://wb6dhw.com>

On 4/4/2013 4:27 AM, Sid Boyce wrote:
>
> Hi Dave,
> I have just been reading operation.doc and it says a 100 ohm resistor
> needs to be placed between the output and ground to stop it oscillating.
>
> The circuit diagram I have has only L1 and C16 connected to HMC482 pin3.
>
> A previous attempt connecting a 20W PA caused some sort of feedback loop
> which killed the HMC482.
>
> I am about to connect a 1W PA (needing 1mW input) through a 18dB
> attenuator so I guess I need to install the 100 ohm resistor at the
> output of the HMC482.
>
> I had not seen this requirement previously.
> 73 ... Sid.
>
> --
> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
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> _

1534. Re: [UHFSDR] HMC482 output

Yahoo group: UHFSDR
Date: 2013-04-04 22:43:18 UTC
From: Sid Boyce
Topic: 1532 Message: 1534

Thanks Dave,
I have the attenuator connected by coax directly to the input of the driver so the Input and output relays bypass the attenuator+driver on RX so the HMC482 would only be connected to the attenuator when the relays switch to TX.

Sounds like the 100 ohm is needed in that case.
73 ... Sid.

On 04/04/13 20:03, Dave wrote:
>
> Sid:
> During prototype, I found the oscillation when the HMC482 output was
> open during receive. The attenuator should provide the needed load if
> connected right after the HMC482 before the TR switch.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 4/4/2013 4:27 AM, Sid Boyce wrote:
>>
>> Hi Dave,
>> I have just been reading operation.doc and it says a 100 ohm resistor
>> needs to be placed between the output and ground to stop it oscillating.
>>
>> The circuit diagram I have has only L1 and C16 connected to HMC482 pin3.
>>
>> A previous attempt connecting a 20W PA caused some sort of feedback loop
>> which killed the HMC482.
>>
>> I am about to connect a 1W PA (needing 1mW input) through a 18dB
>> attenuator so I guess I need to install the 100 ohm resistor at the
>> output of the HMC482.
>>
>> I had not seen this requirement previously.
>> 73 ... Sid.
>>
>> --
>> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
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>> Senior Staff Specialist, Cricket Coach
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>

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1535. Re: [UHFSDR] HMC482 output

Yahoo group: UHFSDR
Date: 2013-04-04 22:50:49 UTC
From: Dave
Topic: 1532 Message: 1535

Sid:
Yes, you should install it in that case. I saw an oscillation around
570 MHz. Wiped out our local UHF TV translator reception!

Dave - WB6DHW
<http://wb6dhw.com>

On 4/4/2013 3:43 PM, Sid Boyce wrote:
>
> Thanks Dave,
> I have the attenuator connected by coax directly to the input of the
> driver so the Input and output relays bypass the attenuator+driver on
> RX so the HMC482 would only be connected to the attenuator when the
> relays switch to TX.
>
> Sounds like the 100 ohm is needed in that case.
> 73 ... Sid.
>
> On 04/04/13 20:03, Dave wrote:
>>
>> Sid:
>> During prototype, I found the oscillation when the HMC482 output was
>> open during receive. The attenuator should provide the needed load
>> if connected right after the HMC482 before the TR switch.
>>
>> Dave - WB6DHW
>> <http://wb6dhw.com>
>>
>> On 4/4/2013 4:27 AM, Sid Boyce wrote:
>>>
>>> Hi Dave,
>>> I have just been reading operation.doc and it says a 100 ohm resistor
>>> needs to be placed between the output and ground to stop it oscillating.
>>>
>>> The circuit diagram I have has only L1 and C16 connected to HMC482 pin3.
>>>
>>> A previous attempt connecting a 20W PA caused some sort of feedback
>>> loop
>>> which killed the HMC482.
>>>
>>> I am about to connect a 1W PA (needing 1mW input) through a 18dB
>>> attenuator so I guess I need to install the 100 ohm resistor at the
>>> output of the HMC482.
>>>
>>> I had not seen this requirement previously.

```
>>> 73 ... Sid.
>>>
>>> --
>>> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
>>> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
>>> Senior Staff Specialist, Cricket Coach
>>> Microsoft Windows Free Zone - Linux used for all Computing Tasks
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>>
>
>
> -
```

1536. Re: [UHFSDR] HMC482 output

Yahoo group: UHFSDR
Date: 2013-04-04 23:15:37 UTC
From: Sid Boyce
Topic: 1532 Message: 1536

Thaks Dave,
I shall fit it.
73 ... Sid.

On 04/04/13 23:50, Dave wrote:
>
> Sid:
> Yes, you should install it in that case. I saw an oscillation
> around 570 MHz. Wiped out our local UHF TV translator reception!
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 4/4/2013 3:43 PM, Sid Boyce wrote:
>>
>> Thanks Dave,
>> I have the attenuator connected by coax directly to the input of the
>> driver so the Input and output relays bypass the attenuator+driver on
>> RX so the HMC482 would only be connected to the attenuator when the
>> relays switch to TX.
>>
>> Sounds like the 100 ohm is needed in that case.
>> 73 ... Sid.
>>
>> On 04/04/13 20:03, Dave wrote:
>>>
>>> Sid:
>>> During prototype, I found the oscillation when the HMC482 output
>>> was open during receive. The attenuator should provide the needed
>>> load if connected right after the HMC482 before the TR switch.
>>>
>>> Dave - WB6DHW
>>> <http://wb6dhw.com>
>>>
>>> On 4/4/2013 4:27 AM, Sid Boyce wrote:
>>>>
>>>> Hi Dave,
>>>> I have just been reading operation.doc and it says a 100 ohm resistor
>>>> needs to be placed between the output and ground to stop it
>>>> oscillating.
>>>>
>>>> The circuit diagram I have has only L1 and C16 connected to HMC482
>>>> pin3.
>>>>
>>>> A previous attempt connecting a 20W PA caused some sort of feedback

>>>> loop
>>>> which killed the HMC482.
>>>>
>>>> I am about to connect a 1W PA (needing 1mW input) through a 18dB
>>>> attenuator so I guess I need to install the 100 ohm resistor at the
>>>> output of the HMC482.
>>>>
>>>> I had not seen this requirement previously.
>>>> 73 ... Sid.
>>>>
>>>> --
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>>>
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1537. Re: HMC482 output

Yahoo group: UHFSDR
Date: 2013-04-05 02:35:40 UTC
From: rainerfeldkamp
Topic: 1532 Message: 1537

Hi Sid,

For the peace of mind, if you need only 1mW output, replace the HMC by an ERA6 or even ERA3 which are advertized and are in fact unconditionally stable.

With some careful bending of their input and output terminals, ERA3 or ERA5 fit nicely on the board, but of course require adapting of the biasing resistors.

The 100ohm resistor distorts the response of any bandpass or lowpass filter at the antenna terminal of the UHFSDR unless you add a series resistor in front of C16 for compensation.

73; Rainer

--- In UHFSDR@yahoogroups.com, Sid Boyce <sboyce@...> wrote:
>
> Hi Dave,
> I have just been reading operation.doc and it says a 100 ohm resistor
> needs to be placed between the output and ground to stop it oscillating.
>
> The circuit diagram I have has only L1 and C16 connected to HMC482 pin3.
>
> A previous attempt connecting a 20W PA caused some sort of feedback loop
> which killed the HMC482.
>
> I am about to connect a 1W PA (needing 1mW input) through a 18dB
> attenuator so I guess I need to install the 100 ohm resistor at the
> output of the HMC482.
>
> I had not seen this requirement previously.
> 73 ... Sid.
>
> --
> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
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>

1538. Re: HMC482 output

Yahoo group: UHFSDR
Date: 2013-04-05 10:43:25 UTC
From: tony_g3ovh
Topic: 1532 Message: 1538

Hi Dave

Can you explain this a bit more, please - the HMC482 is not powered during receive, so how can it oscillate?
I have been using my UHFSDR for over a year and havn't knowingly experienced this problem. Like Sid, I hadn't read your note at the end of the operations document.

ps - thanks, Dave for a superb design - it has reinvigorated my amateur radio interest. Apart from occasional HF use with an old 20W PA I built over 20 years ago, my main setup is on the 4m amateur band with a 150W PA - I am using it in competitions very successfully with PowerSDR - now using the latest version with divide by 2 for home brew rigs (another thread!)

Tony

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> Sid:
> During prototype, I found the oscillation when the HMC482 output was
> open during receive. The attenuator should provide the needed load if
> connected right after the HMC482 before the TR switch.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 4/4/2013 4:27 AM, Sid Boyce wrote:
> >
> > Hi Dave,
> > I have just been reading operation.doc and it says a 100 ohm resistor
> > needs to be placed between the output and ground to stop it oscillating.
> >
> > The circuit diagram I have has only L1 and C16 connected to HMC482 pin3.
> >
> > A previous attempt connecting a 20W PA caused some sort of feedback loop
> > which killed the HMC482.
> >
> > I am about to connect a 1W PA (needing 1mW input) through a 18dB
> > attenuator so I guess I need to install the 100 ohm resistor at the
> > output of the HMC482.
> >
> > I had not seen this requirement previously.
> > 73 ... Sid.
> >
> > --
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> >
> > _
>

1539. Re: [UHFSDR] Re: HMC482 output

Yahoo group: UHFSDR
Date: 2013-04-05 14:27:56 UTC
From: Sid Boyce
Topic: 1532 Message: 1539

Thanks Rainer,
I think I have one of those around somehwere.
73 ... Sid.

On 05/04/13 03:35, rainerfeldkamp wrote:
>
> Hi Sid,
>
> For the peace of mind, if you need only 1mW output, replace the HMC by
> an ERA6 or even ERA3 which are advertized and are in fact
> unconditionally stable.
>
> With some careful bending of their input and output terminals, ERA3 or
> ERA5 fit nicely on the board, but of course require adapting of the
> biasing resistors.
>
> The 100ohm resistor distorts the response of any bandpass or lowpass
> filter at the antenna terminal of the UHFSDR unless you add a series
> resistor in front of C16 for compensation.
>
> 73; Rainer
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Sid
> Boyce <sboyce@...> wrote:
> >
> > Hi Dave,
> > I have just been reading operation.doc and it says a 100 ohm resistor
> > needs to be placed between the output and ground to stop it oscillating.
> >
> > The circuit diagram I have has only L1 and C16 connected to HMC482 pin3.
> >
> > A previous attempt connecting a 20W PA caused some sort of feedback
> loop
> > which killed the HMC482.
> >
> > I am about to connect a 1W PA (needing 1mW input) through a 18dB
> > attenuator so I guess I need to install the 100 ohm resistor at the
> > output of the HMC482.
> >
> > I had not seen this requirement previously.
> > 73 ... Sid.
> >
> > --
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> >
>
>

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Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
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Senior Staff Specialist, Cricket Coach
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1540. Re: [UHFSDR] Re: HMC482 output

Yahoo group: UHFSDR
Date: 2013-04-05 14:48:54 UTC
From: Sid Boyce
Topic: 1532 Message: 1540

The transmit driver is an HMC482 and it was during TX that it went into oscillation when connected directly to a 10W PA via a 10dB attenuator. I had a SWR meter and a dummy load connected to the PA and the whole thing took off.

When I went back to using the UHFSDR into the dummy load there was nothing more heard from the monitoring RX and the scope confirmed there was no RF output.

73 ... Sid.

On 05/04/13 11:43, tony_g3ovh wrote:
>
> Hi Dave
>
> Can you explain this a bit more, please - the HMC482 is not powered
> during receive, so how can it oscillate?
> I have been using my UHFSDR for over a year and havn't knowingly
> experienced this problem. Like Sid, I hadn't read your note at the end
> of the operations document.
>
> ps - thanks, Dave for a superb design - it has reinvigorated my
> amateur radio interest. Apart from occasional HF use with an old 20W
> PA I built over 20 years ago, my main setup is on the 4m amateur band
> with a 150W PA - I am using it in competitions very successfully with
> PowerSDR - now using the latest version with divide by 2 for home brew
> rigs (another thread!)
>
> Tony
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Dave
> <dave@...> wrote:
> >
> > Sid:
> > During prototype, I found the oscillation when the HMC482 output was
> > open during receive. The attenuator should provide the needed load if
> > connected right after the HMC482 before the TR switch.
> >
> > Dave - WB6DHW
> > <http://wb6dhw.com>
> >
> > On 4/4/2013 4:27 AM, Sid Boyce wrote:
> > >
> > > Hi Dave,
> > > I have just been reading operation.doc and it says a 100 ohm resistor
> > > needs to be placed between the output and ground to stop it

> oscillating.
> > >
> > > The circuit diagram I have has only L1 and C16 connected to HMC482
> pin3.
> > >
> > > A previous attempt connecting a 20W PA caused some sort of
> feedback loop
> > > which killed the HMC482.
> > >
> > > I am about to connect a 1W PA (needing 1mW input) through a 18dB
> > > attenuator so I guess I need to install the 100 ohm resistor at the
> > > output of the HMC482.
> > >
> > > I had not seen this requirement previously.
> > > 73 ... Sid.
> > >
> > > --
> > > Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
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> > > Microsoft Windows Free Zone - Linux used for all Computing Tasks
> > >
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Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1541. Re: [UHFSDR] Re: HMC482 output

Yahoo group: UHFSDR
Date: 2013-04-05 20:42:36 UTC
From: Dave
Topic: 1532 Message: 1541

Tony:
I forgot about that change. It used to be powered during receive.

Dave - WB6DHW
<http://wb6dhw.com>

On 4/5/2013 3:43 AM, tony_g3ovh wrote:
>
> Hi Dave
>
> Can you explain this a bit more, please - the HMC482 is not powered
> during receive, so how can it oscillate?
> I have been using my UHFSDR for over a year and havn't knowingly
> experienced this problem. Like Sid, I hadn't read your note at the end
> of the operations document.
>
> ps - thanks, Dave for a superb design - it has reinvigorated my
> amateur radio interest. Apart from occasional HF use with an old 20W
> PA I built over 20 years ago, my main setup is on the 4m amateur band
> with a 150W PA - I am using it in competitions very successfully with
> PowerSDR - now using the latest version with divide by 2 for home brew
> rigs (another thread!)
>
> Tony
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Dave
> <dave@...> wrote:
> >
> > Sid:
> > During prototype, I found the oscillation when the HMC482 output was
> > open during receive. The attenuator should provide the needed load if
> > connected right after the HMC482 before the TR switch.
> >
> > Dave - WB6DHW
> > <http://wb6dhw.com>
> >
> > On 4/4/2013 4:27 AM, Sid Boyce wrote:
> > >
> > > Hi Dave,
> > > I have just been reading operation.doc and it says a 100 ohm resistor
> > > needs to be placed between the output and ground to stop it
> oscillating.
> > >
> > > The circuit diagram I have has only L1 and C16 connected to HMC482
> pin3.

> > >
> > > A previous attempt connecting a 20W PA caused some sort of
> feedback loop
> > > which killed the HMC482.
> > >
> > > I am about to connect a 1W PA (needing 1mW input) through a 18dB
> > > attenuator so I guess I need to install the 100 ohm resistor at the
> > > output of the HMC482.
> > >
> > > I had not seen this requirement previously.
> > > 73 ... Sid.
> > >
> > > --
> > > Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
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1542. IQ unbalanced

Yahoo group: UHFSDR
Date: 2013-04-05 21:09:45 UTC
From: rhillard@...
Topic: 1542 Message: 1542

I am unable to get rid of the image during receive and xmit. I have tracked the IQ signals from the J2 port (IQ receive) all the way back to the U15 and U16 mixers, and have found the IQ amplitude relationship to be identical from start to finish.

In addition, there is a phase error on receive and xmit.

I have uploaded a photo to the WA6UFQ folder labled IQ Unbalanced. As you can see, the I amplitude is almost two centimeters lower than the Q amplitude.

Although not real obvious in the picture, the phase relationship between I and Q falls short of the required 90 degrees by a number of degrees.

I have not been able to determine whether the problem is a defective U15 mixer, or a problem with the resistor/capacitor interconnect between the Si570 and LO input to the mixer. I can cause the phase relationship to change by putting a finger on the resistor/capacitor components in the matching and attenuator networks between the Si570 and the mixers.

Anyone have any ideas or suggestions?

Bob WA6UFQ

1543. Re: HMC482 output

Yahoo group: UHFSDR
Date: 2013-04-07 19:46:57 UTC
From: Ed
Topic: 1532 Message: 1543

Hi All, Have a look at my message No. 810 on the oscillating PA.
Cheers Ed GM3SBC

--- In UHFSDR@yahoogroups.com, Sid Boyce <sboyce@...> wrote:
>
> The transmit driver is an HMC482 and it was during TX that it went into
> oscillation when connected directly to a 10W PA via a 10dB attenuator.
> I had a SWR meter and a dummy load connected to the PA and the whole
> thing took off.
>
> When I went back to using the UHFSDR into the dummy load there was
> nothing more heard from the monitoring RX and the scope confirmed there
> was no RF output.
>
> 73 ... Sid.
>
>
> On 05/04/13 11:43, tony_g3ovh wrote:
> >
> > Hi Dave
> >
> > Can you explain this a bit more, please - the HMC482 is not powered
> > during receive, so how can it oscillate?
> > I have been using my UHFSDR for over a year and havn't knowingly
> > experienced this problem. Like Sid, I hadn't read your note at the end
> > of the operations document.
> >
> > ps - thanks, Dave for a superb design - it has reinvigorated my
> > amateur radio interest. Apart from occasional HF use with an old 20W
> > PA I built over 20 years ago, my main setup is on the 4m amateur band
> > with a 150W PA - I am using it in competitions very successfully with
> > PowerSDR - now using the latest version with divide by 2 for home brew
> > rigs (another thread!)
> >
> > Tony
> >
> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Dave
> > <dave@> wrote:
> > >
> > > Sid:
> > > During prototype, I found the oscillation when the HMC482 output was
> > > open during receive. The attenuator should provide the needed load if
> > > connected right after the HMC482 before the TR switch.
> > >
> > > Dave - WB6DHW

> > > <http://wb6dhw.com>
> > >
> > > On 4/4/2013 4:27 AM, Sid Boyce wrote:
> > > >
> > > > Hi Dave,
> > > > I have just been reading operation.doc and it says a 100 ohm resistor
> > > > needs to be placed between the output and ground to stop it
> > oscillating.
> > > >
> > > > The circuit diagram I have has only L1 and C16 connected to HMC482
> > pin3.
> > > >
> > > > A previous attempt connecting a 20W PA caused some sort of
> > feedback loop
> > > > which killed the HMC482.
> > > >
> > > > I am about to connect a 1W PA (needing 1mW input) through a 18dB
> > > > attenuator so I guess I need to install the 100 ohm resistor at the
> > > > output of the HMC482.
> > > >
> > > > I had not seen this requirement previously.
> > > > 73 ... Sid.
> > > >
> > > > --
> > > > Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
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> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
> Senior Staff Specialist, Cricket Coach
> Microsoft Windows Free Zone - Linux used for all Computing Tasks
>

1544. Re: [UHFSDR] Re: HMC482 output

Yahoo group: UHFSDR
Date: 2013-04-07 20:17:07 UTC
From: Sid Boyce
Topic: 1532 Message: 1544

Thanks Ed,
470 ohm // L1.
73 ... Sid.

On 07/04/13 20:46, Ed wrote:
>
> Hi All, Have a look at my message No. 810 on the oscillating PA.
> Cheers Ed GM3SBC
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Sid
> Boyce <sboyce@...> wrote:
> >
> > The transmit driver is an HMC482 and it was during TX that it went into
> > oscillation when connected directly to a 10W PA via a 10dB attenuator.
> > I had a SWR meter and a dummy load connected to the PA and the whole
> > thing took off.
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> > When I went back to using the UHFSDR into the dummy load there was
> > nothing more heard from the monitoring RX and the scope confirmed there
> > was no RF output.
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> > 73 ... Sid.
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> > On 05/04/13 11:43, tony_g3ovh wrote:
> > >
> > > Hi Dave
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> > > Can you explain this a bit more, please - the HMC482 is not powered
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> > > of the operations document.
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> > > ps - thanks, Dave for a superb design - it has reinvigorated my
> > > amateur radio interest. Apart from occasional HF use with an old 20W
> > > PA I built over 20 years ago, my main setup is on the 4m amateur band
> > > with a 150W PA - I am using it in competitions very successfully with
> > > PowerSDR - now using the latest version with divide by 2 for home
> brew
> > > rigs (another thread!)
> > >
> > > Tony
> > >

> > > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> <mailto:UHFSDR%40yahoogroups.com>, Dave
> > > <dave@> wrote:
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> > > > Sid:
> > > > During prototype, I found the oscillation when the HMC482 output was
> > > > open during receive. The attenuator should provide the needed
> load if
> > > > connected right after the HMC482 before the TR switch.
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> > > > <http://wb6dhw.com>
> > > >
> > > > On 4/4/2013 4:27 AM, Sid Boyce wrote:
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> > > > > Hi Dave,
> > > > > I have just been reading operation.doc and it says a 100 ohm
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> > > > > needs to be placed between the output and ground to stop it
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> > > > > The circuit diagram I have has only L1 and C16 connected to
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> > > pin3.
> > > > >
> > > > > A previous attempt connecting a 20W PA caused some sort of
> > > feedback loop
> > > > > which killed the HMC482.
> > > > >
> > > > > I am about to connect a 1W PA (needing 1mW input) through a 18dB
> > > > > attenuator so I guess I need to install the 100 ohm resistor
> at the
> > > > > output of the HMC482.
> > > > >
> > > > > I had not seen this requirement previously.
> > > > > 73 ... Sid.
> > > > >
> > > > > --
>
>

--
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1545. Mobo 4.3 UHFSDR

Yahoo group: UHFSDR
Date: 2013-04-29 07:55:17 UTC
From: f1eve12
Topic: 1545 Message: 1545

bonjour a tous
je voudrais piloter la platine uhfsdr avec le microcontroleur de la mobo4.3 (atmega 32u2)
le multiplicateur du firmware natif ne correspond pas affichage lcd
diviser par 2 sur uhfsdr
quelq'un aurait il un firmware modifier
je sais que Loftur la fait pour un om
je ne le trouve pas sur internet

73s a tous de charles f1eve

merçci d'avance

1546. mobo 4.3 UHFSDR

Yahoo group: UHFSDR
Date: 2013-04-29 09:30:27 UTC
From: f1eve12
Topic: 1546 Message: 1546

hello all
I would drive the platinum uhfsdr with the microcontroller of mobo4.3
(atmega 32u2)
the multiplier native firmware does not match display lcd
2 to divide by uhfsdr
quelq'un it would a firmware change
I know for a fact the Loftur om
I can not find it on the internet

73s has all charles f1eve

mercci feed

1547. UHFSDR carrier leakage

Yahoo group: UHFSDR
Date: 2013-05-13 11:03:10 UTC
From: g.suggate
Topic: 1547 Message: 1547

My set-up is UHFSDR+USB2SDR+PowerSDR V1.19.20.3(USB2SDR). I use the kit on 70mhz and amplify the output to 150 watts and have received very good reports apart from a complaint of "audible carrier" on SSB and under key up on CW. I have checked at the output of the UHFSDR and the signal is there. Too low for my instruments to measure, however when fed to the amplifier it produces measurable o/p. I have checked it on other frequencies and it is still present. It seems to be about 300hz away from the intended frequency. I note the signal is present even with the drive on the PowerSDR turned down to zero.

Can anyone tell me if this is normal or should I start digging inside the UHFSDR for a faulty component?

Best regards and 73

Geoff G3NPI Buckingham UK

1548. RE: [UHFSDR] UHFSDR carrier leakage

Yahoo group: UHFSDR
Date: 2013-05-13 14:30:14 UTC
From: MIKE DURKIN
Topic: 1547 Message: 1548

disconnect the audio lines for Tx from the uhfsdr ... then hit the Tx ....

You should not see a carrier ... least not on the freq that the VFO is set to (Si570) ...

I would think its an audio product from the sound source ... or Tx balance/phase settings.

To: UHFSDR@yahoogroups.com
From: g.suggate@...
Date: Mon, 13 May 2013 11:03:10 +0000
Subject: [UHFSDR] UHFSDR carrier leakage

My set-up is UHFSDR+USB2SDR+PowerSDR V1.19.20.3(USB2SDR). I use the kit on 70mhz and amplify the output to 150 watts and have received very good reports apart from a complaint of "audible carrier" on SSB and under key up on CW. I have checked at the output of the UHFSDR and the signal is there. Too low for my instruments to measure, however when fed to the amplifier it produces measurable o/p. I have checked it on other frequencies and it is still present. It seems to be about 300hz away from the intended frequency. I note the signal is present even with the drive on the PowerSDR turned down to zero.

Can anyone tell me if this is normal or should I start digging inside the UHFSDR for a faulty component?

Best regards and 73

Geoff G3NPI Buckingham UK

1549. RE: [UHFSDR] UHFSDR carrier leakage

Yahoo group: UHFSDR
Date: 2013-05-13 15:03:04 UTC
From: F. Veitch
Topic: 1547 Message: 1549

I had the same problem with the USB2SDR but much farther away from the FOI.
Turned out to be the op amp driving the line was oscillating.

Fletch

K3JYD

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
MIKE DURKIN
Sent: Monday, May 13, 2013 2:30 PM
To: UHFSDR UHFSDR
Subject: RE: [UHFSDR] UHFSDR carrier leakage

disconnect the audio lines for Tx from the uhfsdr ... then hit the Tx ....

You should not see a carrier ... least not on the freq that the VFO is set
to (Si570) ...

I would think its an audio product from the sound source ... or Tx
balance/phase settings.

To: UHFSDR@yahoogroups.com
From: g.suggate@...
Date: Mon, 13 May 2013 11:03:10 +0000
Subject: [UHFSDR] UHFSDR carrier leakage

My set-up is UHFSDR+USB2SDR+PowerSDR V1.19.20.3(USB2SDR). I use the kit on
70mhz and amplify the output to 150 watts and have received very good
reports apart from a complaint of "audible carrier" on SSB and under key up
on CW. I have checked at the output of the UHFSDR and the signal is there.
Too low for my instruments to measure, however when fed to the amplifier it
produces measurable o/p. I have checked it on other frequencies and it is
still present. It seems to be about 300hz away from the intended frequency.
I note the signal is present even with the drive on the PowerSDR turned down
to zero.

Can anyone tell me if this is normal or should I start digging inside the
UHFSDR for a faulty component?

Best regards and 73

Geoff G3NPI Buckingham UK

1550. Re: [UHFSDR] UHFSDR carrier leakage

Yahoo group: UHFSDR
Date: 2013-05-13 19:10:04 UTC
From: Dave
Topic: 1547 Message: 1550

Geoff:
The ADE-2ASK spec sheet shows a LO to RF isolation level of -59.7dB
at 78.66 MHz.

Dave - WB6DHE
<http://wb6dhw.com>

On 5/13/2013 4:03 AM, g.suggate wrote:
>
> My set-up is UHFSDR+USB2SDR+PowerSDR V1.19.20.3(USB2SDR). I use the
> kit on 70mhz and amplify the output to 150 watts and have received
> very good reports apart from a complaint of "audible carrier" on SSB
> and under key up on CW. I have checked at the output of the UHFSDR and
> the signal is there. Too low for my instruments to measure, however
> when fed to the amplifier it produces measurable o/p. I have checked
> it on other frequencies and it is still present. It seems to be about
> 300hz away from the intended frequency. I note the signal is present
> even with the drive on the PowerSDR turned down to zero.
>
> Can anyone tell me if this is normal or should I start digging inside
> the UHFSDR for a faulty component?
>
> Best regards and 73
>
> Geoff G3NPI Buckingham UK
>
> _
>
>
>

1551. Re: UHFSDR carrier leakage

Yahoo group: UHFSDR
Date: 2013-05-13 23:02:13 UTC
From: rainerfeldkamp
Topic: 1547 Message: 1551

Dave and Geoff:

The isolation level of the ADE_2ASK is of no help if one of the two mixer paths has a problem which I would check in first instance.

A further possible cause for carrier leak is the source for the 5V at P2-1 on transmit. If the 5V are taken from TP1-1 as proposed for testing, there is a very looong line to P2_1 picking up a lot of noise.

I was able to further narrow down the anyhow excellent output spectrum in the below -60dB region by placing a DPDT micro relais directly besides P2 and taking the 5V from the terminal of C72 at the edge of the board. Perhaps P2 could be supplemented by a third (5V) pin in the future.

The relais is operated in the usual manner from the PTT output of a ATINY 85 USB/I2C converter, and the second contact set of the relais is used for operating the PA and antenna switching thereof.

Best 73

Rainer DJ6OA

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> Geoff:
> The ADE-2ASK spec sheet shows a LO to RF isolation level of -59.7dB
> at 78.66 MHz.
>
> Dave - WB6DHE
> <http://wb6dhw.com>
>
> On 5/13/2013 4:03 AM, g.suggate wrote:
> >
> > My set-up is UHFSDR+USB2SDR+PowerSDR V1.19.20.3(USB2SDR). I use the
> > kit on 70mhz and amplify the output to 150 watts and have received
> > very good reports apart from a complaint of "audible carrier" on SSB
> > and under key up on CW. I have checked at the output of the UHFSDR and
> > the signal is there. Too low for my instruments to measure, however
> > when fed to the amplifier it produces measurable o/p. I have checked
> > it on other frequencies and it is still present. It seems to be about
> > 300hz away from the intended frequency. I note the signal is present
> > even with the drive on the PowerSDR turned down to zero.
> >
> > Can anyone tell me if this is normal or should I start digging inside
> > the UHFSDR for a faulty component?
> >
> > Best regards and 73

> >
> > Geoff G3NPI Buckingham UK
> >
> > _
> >
> >
> >
>

1552. Re: UHFSDR carrier leakage

Yahoo group: UHFSDR
Date: 2013-05-17 19:42:51 UTC
From: g.suggate
Topic: 1547 Message: 1552

Many thanks for all the replies. I will see what I can
sort out using all the suggestions I have received

73

Geoff G3NPI

--- In UHFSDR@yahoogroups.com, "rainerfeldkamp" <feldkamp@...> wrote:
>
> Dave and Geoff:
>
> The isolation level of the ADE_2ASK is of no help if one of the two mixer paths has a problem which I would check in first instance.
>
> A further possible cause for carrier leak is the source for the 5V at P2-1 on transmit. If the 5V are taken from TP1-1 as proposed for testing, there is a very looong line to P2_1 picking up a lot of noise.
>
> I was able to further narrow down the anyhow excellent output spectrum in the below -60dB region by placing a DPDT micro relais directly besides P2 and taking the 5V from the terminal of C72 at the edge of the board. Perhaps P2 could be supplemented by a third (5V) pin in the future.
>
> The relais is operated in the usual manner from the PTT output of a ATINY 85 USB/I2C converter, and the second contact set of the relais is used for operating the PA and antenna switching thereof.
>
> Best 73
>
> Rainer DJ6OA
>
>
> --- In UHFSDR@yahoogroups.com, Dave <dave@> wrote:
> >
> > Geoff:
> > The ADE-2ASK spec sheet shows a LO to RF isolation level of -59.7dB
> > at 78.66 MHz.
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> > Dave - WB6DHE
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> > On 5/13/2013 4:03 AM, g.suggate wrote:
> > >
> > > My set-up is UHFSDR+USB2SDR+PowerSDR V1.19.20.3(USB2SDR). I use the
> > > kit on 70mhz and amplify the output to 150 watts and have received
> > > very good reports apart from a complaint of "audible carrier" on SSB

> > > and under key up on CW. I have checked at the output of the UHFSDR and
> > > the signal is there. Too low for my instruments to measure, however
> > > when fed to the amplifier it produces measurable o/p. I have checked
> > > it on other frequencies and it is still present. It seems to be about
> > > 300hz away from the intended frequency. I note the signal is present
> > > even with the drive on the PowerSDR turned down to zero.
> > >
> > > Can anyone tell me if this is normal or should I start digging inside
> > > the UHFSDR for a faulty component?
> > >
> > > Best regards and 73
> > >
> > > Geoff G3NPI Buckingham UK
> > >
> > > _
> > >
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> > >
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>

1553. Kit availability and order status.

Yahoo group: UHFSDR
Date: 2013-05-19 10:20:50 UTC
From: yl2gqn
Topic: 1553 Message: 1553

Hello Alan,

Can't reach you by email during last week. Probably emails go to spam/junk folder.

The question is about kit availability - any ideas/expectations about possible date get ordered?

Thank you for your reply in advance.

Regards,
Andy - YL2QN.

1554. soldering d1

Yahoo group: UHFSDR
Date: 2013-05-20 03:54:41 UTC
From: Ronald Wagner
Topic: 1554 Message: 1554

I've just gotten to the step of soldering down D1, which is by far the most challenging chip I've ever had to tack down.

I'm thinking of doing a forward/reverse check with an ohm meter on the pad of Q7 pin2 since it's not there yet. But is there any danger to D1 in doing that?

Ron

1555. Re: [UHFSDR] soldering d1

Yahoo group: UHFSDR
Date: 2013-05-20 09:44:25 UTC
From: Sid Boyce
Topic: 1554 Message: 1555

After my first UHFSDR build I submitted a post saying that on a subsequent build I would install D1 as the very first component.

On my second build and considering the checks to be made, that was not possible.

The best approach would be not to install P4 until after D1 has been installed.
The tests that need P4 could be performed using wires that would fit the holes.

I tried using the footer for that but found it not easy to get the pins to make contact.
73 ... Sid.

On 20/05/13 04:54, Ronald Wagner wrote:
>
> I've just gotten to the step of soldering down D1, which is by far the
> most challenging chip I've ever had to tack down.
>
> I'm thinking of doing a forward/reverse check with an ohm meter on the
> pad of Q7 pin2 since it's not there yet. But is there any danger to
> D1 in doing that?
>
> Ron
>
>

--
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Senior Staff Specialist, Cricket Coach
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1556. Image null and carrier suppression

Yahoo group: UHFSDR
Date: 2013-05-24 17:29:07 UTC
From: rhillard@...
Topic: 1556 Message: 1556

I am having problems with both the nulling of the image and suppression of the carrier.

I've corrected the nulling problem by adding gain control pots to U9 and U10, which allowed me to null receive and xmit images.

However I still have a carrier suppression problem.

Looking a little closer at the clock circuitry between the Si570 and the mixers, I found that the output levels of the two flip flops don't match. The output level of U17, the I flip flop is 25% lower in level than U18's output level. This level variance carries all the way to and through the two mixers.

I'm looking for opinions on this. Has anyone else had this problem? Should I try swapping out the flip flops? What is the availability of these chips?

Thanks,

Bob WA6UFQ

1557. RE: [UHFSDR] Image null and carrier suppression

Yahoo group: UHFSDR
Date: 2013-05-24 18:30:53 UTC
From: MIKE DURKIN
Topic: 1556 Message: 1557

I would swap'em ... if it dosent follow the flip/flop -- then you have an incorrect value resistor in the impedance matching line to the mixers ..

the parts are available .... all over the place ...

I have 2 UHFSDR's ... one has a odd phase error problem ... its not real bad ... but measurable.

adding gain control pots to U9 and U10 only solves the issue of gain of the opamps .. but its not the problem.

Fix the level issues of the source to the mixers first ... what ever that may be, and you should find that you can remove your mods.

Carrier suppression problems are direct result of imbalance going to one or both mixers from the flip/flop ... this is a voltage imbalance, not phase -- unless you have a darn good scope, your not going to be able to measure the phase error.

the I/In and Q/Qn levels should be the same .... and I / Q should also be the same ..... (n=not) .... at the mixers -- i dont remember closer to the flip/flops ....

Also what Si570 are you using -- LVDS or ??

Mike KC7NOA

YMMV

To: UHFSDR@yahoogroups.com
From: rhillard@...
Date: Fri, 24 May 2013 17:29:07 +0000
Subject: [UHFSDR] Image null and carrier suppression

I am having problems with both the nulling of the image and suppression of the carrier.

I've corrected the nulling problem by adding gain control pots to U9 and U10, which allowed me to null receive and xmit images.

However I still have a carrier suppression problem.

Looking a little closer at the clock circuitry between the Si570 and the mixers, I found that the output levels of the two flip flops don't match. The output level of U17, the I flip flop is 25% lower in level than U18's output level. This level variance carries all the way to and through the two mixers.

I'm looking for opinions on this. Has anyone else had this problem? Should I try swapping out the flip flops? What is the availability of these chips?

Thanks,

Bob WA6UFQ

1558. Re: [UHFSDR] Image null and carrier suppression

Yahoo group: UHFSDR
Date: 2013-05-24 20:08:49 UTC
From: Dave
Topic: 1556 Message: 1558

Bob:
Carrier suppression is a function of the mixers. The flip flop outputs should be identical in voltage level. Either their loads are radically different or one is bad. Check the resisters and solder joints between the flip flops and the mixers. Also, make sure you have the right resisters installed for the type of Si570 you are using. Until recently, the schematic showed the values for LVDS and indicated in a table the changes for LVPECL. I recently changed the schematic to show the LVPECL values since the Si570's included in the kits are LVPECL. With no tweeking in the program, I get 20 - 30 dB of opposite sideband rejection and I can't see the carrier at 440 MHz.

Dave - WB6DHW
<http://wb6dhw.com>

On 5/24/2013 10:29 AM, rhillard@... wrote:
>
> I am having problems with both the nulling of the image and
> suppression of the carrier.
>
> I've corrected the nulling problem by adding gain control pots to U9
> and U10, which allowed me to null receive and xmit images.
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> However I still have a carrier suppression problem.
>
> Looking a little closer at the clock circuitry between the Si570 and
> the mixers, I found that the output levels of the two flip flops don't
> match. The output level of U17, the I flip flop is 25% lower in level
> than U18's output level. This level variance carries all the way to
> and through the two mixers.
>
> I'm looking for opinions on this. Has anyone else had this problem?
> Should I try swapping out the flip flops? What is the availability of
> these chips?
>
> Thanks,
>
> Bob WA6UFQ
>
> _

1559. build problem; step 199 TR RF Switching

Yahoo group: UHFSDR
Date: 2013-06-10 02:54:21 UTC
From: Ronald Wagner
Topic: 1559 Message: 1559

I'm getting some disagreement with the build instructions for testing the T/R RF switching.

Step 199 & 200 sat that U7 6 and 4 should be 0 and 5v respectively, but I'm getting the opposite. Can anyone make some suggestions?

On U6 I see the following pin voltages:

1 5v

2 5

3 0

4 0

5 5

6 5

7 -

8 0

9 5

10 5

11 5 - which goes to U2 which is correct voltage

12 5

13 0 - which goes to U2 which is ok

I have H5 2 and 3 shorted.

It actually looks like the U7 voltages are what they should be, but that's counter to the build instructions.

Ron

1560. RF Output

Yahoo group: UHFSDR
Date: 2013-06-16 01:31:01 UTC
From: Kees & Sandy
Topic: 1560 Message: 1560

Since the Hittite HMC482ST89 part is spec'd from 6V to 12V has anyone tried to push the RF Amp ? ....maybe with a small heatsink.

73 Kees K5BCQ

1561. Re: Image null and carrier suppression

Yahoo group: UHFSDR
Date: 2013-07-10 14:45:07 UTC
From: rhillard@...
Topic: 1556 Message: 1561

Hi Dave,

I've corrected my sideband null problem, replacing R46 -R49 with the correct resistors (values supplied were in error).

However I am still not able to null the carrier; it is only around 16db down. I've tried varying the value of R31 and R33 using miniature SMD trimmers, with no success.

Any ideas on what could be causing the carrier level to be high?

Any chance that I might have a defective mixer installed?

Bob WA6UFQ

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> Bob:
> Carrier suppression is a function of the mixers. The flip flop
> outputs should be identical in voltage level. Either their loads are
> radically different or one is bad. Check the resisters and solder
> joints between the flip flops and the mixers. Also, make sure you have
> the right resisters installed for the type of Si570 you are using.
> Until recently, the schematic showed the values for LVDS and indicated
> in a table the changes for LVPECL. I recently changed the schematic to
> show the LVPECL values since the Si570's included in the kits are
> LVPECL. With no tweeking in the program, I get 20 - 30 dB of opposite
> sideband rejection and I can't see the carrier at 440 MHz.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 5/24/2013 10:29 AM, rhillard@... wrote:
> >
> > I am having problems with both the nulling of the image and
> > suppression of the carrier.
> >
> > I've corrected the nulling problem by adding gain control pots to U9
> > and U10, which allowed me to null receive and xmit images.
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> > However I still have a carrier suppression problem.
> >
> > Looking a little closer at the clock circuitry between the Si570 and
> > the mixers, I found that the output levels of the two flip flops don't
> > match. The output level of U17, the I flip flop is 25% lower in level
> > than U18's output level. This level variance carries all the way to
> > and through the two mixers.

> >
> > I'm looking for opinions on this. Has anyone else had this problem?
> > Should I try swapping out the flip flops? What is the availability of
> > these chips?
> >
> > Thanks,
> >
> > Bob WA6UFQ
> >
> > _
>

1562. Re: [UHFSDR] Re: Image null and carrier suppression

Yahoo group: UHFSDR
Date: 2013-07-10 19:37:27 UTC
From: Dave
Topic: 1556 Message: 1562

Bob:
Sideband suppression depends on both phase accuracy and the amplitude of both channels being matched. If you can look at higher frequency bands, if the suppression goes down with increasing frequency, the the problem is most likely phase error. If it is about the same, the amplitude matching at audio is likely the problem. It could also be a mismatch in gain in the two channels of your soundcard. But, the SDR software should be able to take care of the mismatch you have.
R22/R19 and R21/R18 determine the audio gain in the I and Q channels.

Dave - WB6DHW
<http://wb6dhw.com>

On 7/10/2013 7:45 AM, rhillard@... wrote:
>
> Hi Dave,
>
> I've corrected my sideband null problem, replacing R46 -R49 with the
> correct resistors (values supplied were in error).
>
> However I am still not able to null the carrier; it is only around
> 16db down. I've tried varying the value of R31 and R33 using miniature
> SMD trimmers, with no success.
>
> Any ideas on what could be causing the carrier level to be high?
>
> Any chance that I might have a defective mixer installed?
>
> Bob WA6UFQ
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Dave
> <dave@...> wrote:
> >
> > Bob:
> > Carrier suppression is a function of the mixers. The flip flop
> > outputs should be identical in voltage level. Either their loads are
> > radically different or one is bad. Check the resisters and solder
> > joints between the flip flops and the mixers. Also, make sure you have
> > the right resisters installed for the type of Si570 you are using.
> > Until recently, the schematic showed the values for LVDS and indicated
> > in a table the changes for LVPECL. I recently changed the schematic to
> > show the LVPECL values since the Si570's included in the kits are
> > LVPECL. With no tweeking in the program, I get 20 - 30 dB of opposite
> > sideband rejection and I can't see the carrier at 440 MHz.
> >

> > Dave - WB6DHW
> > <http://wb6dhw.com>
> >
> > On 5/24/2013 10:29 AM, rhillard@... wrote:
> > >
> > > I am having problems with both the nulling of the image and
> > > suppression of the carrier.
> > >
> > > I've corrected the nulling problem by adding gain control pots to U9
> > > and U10, which allowed me to null receive and xmit images.
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> > > However I still have a carrier suppression problem.
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> > > Looking a little closer at the clock circuitry between the Si570 and
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> > > match. The output level of U17, the I flip flop is 25% lower in level
> > > than U18's output level. This level variance carries all the way to
> > > and through the two mixers.
> > >
> > > I'm looking for opinions on this. Has anyone else had this problem?
> > > Should I try swapping out the flip flops? What is the availability of
> > > these chips?
> > >
> > > Thanks,
> > >
> > > Bob WA6UFQ_,___
>

1563. Re: Image null and carrier suppression

Yahoo group: UHFSDR
Date: 2013-07-11 13:43:02 UTC
From: rhillard@...
Topic: 1556 Message: 1563

Hi Dave,

My sideband suppression has been resolved. It's the carrier suppression that I'm struggling with now.

Any suggestions on what might be the problem?

Have there been any instances of a defective mixer causing the carrier to leak through?

Bob

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> Bob:
> Sideband suppression depends on both phase accuracy and the amplitude
> of both channels being matched. If you can look at higher frequency
> bands, if the suppression goes down with increasing frequency, the the
> problem is most likely phase error. If it is about the same, the
> amplitude matching at audio is likely the problem. It could also be a
> mismatch in gain in the two channels of your soundcard. But, the SDR
> software should be able to take care of the mismatch you have.
> R22/R19 and R21/R18 determine the audio gain in the I and Q channels.
>
> Dave - WB6DHW
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>
> On 7/10/2013 7:45 AM, rhillard@... wrote:
> >
> > Hi Dave,
> >
> > I've corrected my sideband null problem, replacing R46 -R49 with the
> > correct resistors (values supplied were in error).
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> > However I am still not able to null the carrier; it is only around
> > 16db down. I've tried varying the value of R31 and R33 using miniature
> > SMD trimmers, with no success.
> >
> > Any ideas on what could be causing the carrier level to be high?
> >
> > Any chance that I might have a defective mixer installed?
> >
> > Bob WA6UFQ
> >
> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, Dave
> > <dave@> wrote:
> > >

> > > Bob:
> > > Carrier suppression is a function of the mixers. The flip flop
> > > outputs should be identical in voltage level. Either their loads are
> > > radically different or one is bad. Check the resisters and solder
> > > joints between the flip flops and the mixers. Also, make sure you have
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> > >
> > > Dave - WB6DHW
> > > <http://wb6dhw.com>
> > >
> > > On 5/24/2013 10:29 AM, rhillard@ wrote:
> > > >
> > > > I am having problems with both the nulling of the image and
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> > > >
> > > > I've corrected the nulling problem by adding gain control pots to U9
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> > > > I'm looking for opinions on this. Has anyone else had this problem?
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> > > > these chips?
> > > >
> > > > Thanks,
> > > >
> > > > Bob WA6UFQ_,___
> >
>

1564. RE: [UHFSDR] Re: Image null and carrier suppression

Yahoo group: UHFSDR
Date: 2013-07-11 15:13:39 UTC
From: Simon GD4ELI/HB9DRV
Topic: 1556 Message: 1564

Bob,

A fine carrier in the centre of the display is due to a DC offset in the I and Q, this is not a big issue, the software can sort this out with ease. What you do is computer the average I and average Q over a period of time - say 10 seconds - then subtract this from all future I and Q values read from the radio. Myself I always update the computed values.

Let me know if I can help further.

Simon GD4ELI/HB9DRV

http://v2.sdr-radio.com/

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of rhillard@...
Sent: 11 July 2013 15:43
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Re: Image null and carrier suppression

Hi Dave,

My sideband suppression has been resolved. It's the carrier suppression that I'm struggling with now.

Any suggestions on what might be the problem?

Have there been any instances of a defective mixer causing the carrier to leak through?

Bob

--- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com> , Dave <dave@...> wrote:
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> Bob:
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> software should be able to take care of the mismatch you have.
> R22/R19 and R21/R18 determine the audio gain in the I and Q channels.
>
> Dave - WB6DHW
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>

> On 7/10/2013 7:45 AM, rhillard@... wrote:
> >
> > Hi Dave,
> >
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> > Bob WA6UFQ
> >
> > --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
<mailto:UHFSDR%40yahoogroups.com>, Dave
> > <dave@> wrote:
> > >
> > > Bob:
> > > Carrier suppression is a function of the mixers. The flip flop
> > > outputs should be identical in voltage level. Either their loads are
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> > >
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> > > > these chips?
> > > >
> > > > Thanks,
> > > >
> > > > Bob WA6UFQ_,___
> >
>

1565. FAILED part

Yahoo group: UHFSDR
Date: 2013-07-11 22:16:39 UTC
From: MIKE DURKIN
Topic: 1565 Message: 1565

Looks like i need a new FST3257 .. any one have a spare to sell ?? U8 is not passing sound ...

1566. RE: [UHFSDR] FAILED part

Yahoo group: UHFSDR
Date: 2013-07-11 22:19:20 UTC
From: MIKE DURKIN
Topic: 1565 Message: 1566

Would a IDT 74FST3257Q work ??

To: uhfsdr@yahoogroups.com
From: Patriot121@...
Date: Thu, 11 Jul 2013 15:16:39 -0700
Subject: [UHFSDR] FAILED part

Looks like i need a new FST3257 .. any one have a spare to sell ?? U8 is not passing sound ...

1567. Re: [UHFSDR] FAILED part

Yahoo group: UHFSDR
Date: 2013-07-12 01:50:00 UTC
From: Dave
Topic: 1565 Message: 1567

Mike:
Should work if it is in the ssop16 package. IDT has discontinued the 74FST3257Q and I couldn't find a datasheet. The FST3257 is available from Mouser, P/N 512-FST3257MX for $0.65 each.

Dave - WB6DHW
<http://wb6dhw.com>

On 7/11/2013 3:19 PM, MIKE DURKIN wrote:
>
> Would a IDT 74FST3257Q work ??
>
> ---
> To: uhfsdr@yahoogroups.com
> From: Patriot121@...
> Date: Thu, 11 Jul 2013 15:16:39 -0700
> Subject: [UHFSDR] FAILED part
>
>
> Looks like i need a new FST3257 .. any one have a spare to sell ?? U8
> is not passing sound ...
>
>

1568. Re: [UHFSDR] FAILED part

Yahoo group: UHFSDR
Date: 2013-07-12 03:23:52 UTC
From: Alan Hill
Topic: 1565 Message: 1568

I can provide one.
73,
Alan - W6ARH

On Thu, Jul 11, 2013 at 6:50 PM, Dave <dave@...> wrote:

> **
>
>
> Mike:
> Should work if it is in the ssop16 package. IDT has discontinued the
> 74FST3257Q and I couldn't find a datasheet. The FST3257 is available from
> Mouser, P/N 512-FST3257MX for $0.65 each.
>
> Dave - WB6DHW
> <http://wb6dhw.com> <http://wb6dhw.com>
>
>
> On 7/11/2013 3:19 PM, MIKE DURKIN wrote:
>
>
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> Would a IDT 74FST3257Q work ??
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> ----------
> To: uhfsdr@yahoogroups.com
> From: Patriot121@...
> Date: Thu, 11 Jul 2013 15:16:39 -0700
> Subject: [UHFSDR] FAILED part
>
>
>
> Looks like i need a new FST3257 .. any one have a spare to sell ?? U8 is
> not passing sound ...
>
>
>
>

1569. RE: [UHFSDR] FAILED part

Yahoo group: UHFSDR
Date: 2013-07-12 04:34:04 UTC
From: MIKE DURKIN
Topic: 1565 Message: 1569

Alan .. whats your price .. i think id take 3 .... i have 2 UHFSDR's ..... one for repair and the other 2 for spares.

In the past i suspected that my U8 was microphonic ...

To: UHFSDR@yahoogroups.com
From: alan.r.hill@gmail.com
Date: Thu, 11 Jul 2013 20:23:52 -0700
Subject: Re: [UHFSDR] FAILED part

I can provide one.73,Alan - W6ARH

On Thu, Jul 11, 2013 at 6:50 PM, Dave <dave@...> wrote:

Mike:

Should work if it is in the ssop16 package. IDT has
discontinued the 74FST3257Q and I couldn't find a datasheet. The
FST3257 is available from Mouser, P/N 512-FST3257MX for $0.65
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Dave - WB6DHW

<http://wb6dhw.com>

On 7/11/2013 3:19 PM, MIKE DURKIN wrote:

Would a IDT 74FST3257Q work ??

To: uhfsdr@yahoogroups.com

From: Patriot121@...

Date: Thu, 11 Jul 2013 15:16:39 -0700

Subject: [UHFSDR] FAILED part

Looks like i need a new FST3257 ..
any one have a spare to sell ?? U8 is not
passing sound ...

1570. RE: [UHFSDR] FAILED part

Yahoo group: UHFSDR
Date: 2013-07-12 15:42:19 UTC
From: The Silver Fox
Topic: 1565 Message: 1570

Mike,

Considering all the misc fees and costs, I think $5.00 would be close enough for three chips.

73,
Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of MIKE DURKIN
Sent: Thursday, July 11, 2013 9:34 PM
To: UHFSDR UHFSDR
Subject: RE: [UHFSDR] FAILED part

Alan .. whats your price .. i think id take 3 .... i have 2 UHFSDR's ..... one for repair and the other 2 for spares.

In the past i suspected that my U8 was microphonic ...

To: UHFSDR@yahoogroups.com
From: alan.r.hill@...
Date: Thu, 11 Jul 2013 20:23:52 -0700
Subject: Re: [UHFSDR] FAILED part

I can provide one.

73,

Alan - W6ARH

On Thu, Jul 11, 2013 at 6:50 PM, Dave <dave@...> wrote:

Mike:
Should work if it is in the ssop16 package. IDT has discontinued the 74FST3257Q and I couldn't find a datasheet. The FST3257 is available from Mouser, P/N 512-FST3257MX for $0.65 each.

Dave - WB6DHW
<http://wb6dhw.com> <http://wb6dhw.com>

On 7/11/2013 3:19 PM, MIKE DURKIN wrote:

Would a IDT 74FST3257Q work ??

To: uhfsdr@yahoogroups.com
From: Patriot121@...
Date: Thu, 11 Jul 2013 15:16:39 -0700
Subject: [UHFSDR] FAILED part

Looks like i need a new FST3257 .. any one have a spare to sell ?? U8 is not passing sound ...

1571. RE : [UHFSDR] FAILED part

Yahoo group: UHFSDR
Date: 2013-07-12 16:12:08 UTC
From: Marc OLANIE
Topic: 1571 Message: 1571
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Alan

Could it be possible for you to send me a couple of SY10ep52 (U17-U18) too ? Those delivered with one of the kit were TSSOP devices (far smaller than SOIC). This kit has been ordered more than one or two years ago, and I just assembled it 2 weeks ago.

This is for my □spare□ UHFSDR, so it□s definitely not urgent. Just tell me if you have some of these IC□s in stock and how much will it cost for DX shipping.

Tnks and 73□
Marc f6itu

1572. RE: [UHFSDR] FAILED part

Yahoo group: UHFSDR
Date: 2013-07-12 19:12:24 UTC
From: The Silver Fox
Topic: 1571 Message: 1572

I can do that but understand that I haven't changed those parts since I started shipping the kits. They are size SO8N. Also, they are expensive in comparison to the other components excepting the si570.

73,
Alan - W6ARH

-----Original Message-----
From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Marc OLANIE
Sent: Friday, July 12, 2013 9:12 AM
To: UHFSDR@yahoogroups.com
Subject: RE : [UHFSDR] FAILED part

Hi Alan

Could it be possible for you to send me a couple of SY10ep52 (U17-U18) too ? Those delivered with one of the kit were TSSOP devices (far smaller than SOIC). This kit has been ordered more than one or two years ago, and I just assembled it 2 weeks ago.

This is for my □spare□ UHFSDR, so it□s definitely not urgent. Just tell me if you have some of these IC□s in stock and how much will it cost for DX shipping.

Tnks and 73□
Marc f6itu

1573. RE: [UHFSDR] FAILED part

Yahoo group: UHFSDR
Date: 2013-07-14 15:57:23 UTC
From: The Silver Fox
Topic: 1571 Message: 1573

Marc,
If you want the ones I currently ship (there have been no comments on
size from the hundreds of kit builders) I think $15 USD would be sufficient.
73,
Alan - W6ARH

-----Original Message-----
From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
Marc OLANIE
Sent: Friday, July 12, 2013 9:12 AM
To: UHFSDR@yahoogroups.com
Subject: RE : [UHFSDR] FAILED part

Hi Alan

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Those delivered with one of the kit were TSSOP devices (far smaller than
SOIC). This kit has been ordered more than one or two years ago, and I just
assembled it 2 weeks ago.

This is for my □spare□ UHFSDR, so it□s definitely not urgent. Just tell me
if you have some of these IC□s in stock and how much will it cost for DX
shipping.

Tnks and 73□
Marc f6itu

1574. RE: [UHFSDR] FAILED part

Yahoo group: UHFSDR
Date: 2013-07-15 07:38:01 UTC
From: marc olanié
Topic: 1571 Message: 1574

Hi Alan

It's definitely MY fault, not yours. I let this kit aside during almost 2 years, and don't remember if had to cannibalize some stuff and replaced it with a wrong value. That☐s probably what appends. Local dealer seems to only have TSSOP package. I keep on searching and will bug you only if I cannot succeed. In this case, I'll send you a paypal order and an direct confirmation mail . The most important info is : you have it in stock, my spare UHFSDR will be alive some day :- DD
Thank you again Alan
73'
Marc f6itu

-----Message d'origine-----
De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] De la part de The Silver Fox
Envoyé : dimanche 14 juillet 2013 17:57
À : UHFSDR@yahoogroups.com
Objet : RE: [UHFSDR] FAILED part

Marc,
If you want the ones I currently ship (there have been no comments on size from the hundreds of kit builders) I think $15 USD would be sufficient.
73,
Alan - W6ARH

-----Original Message-----
From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Marc OLANIE
Sent: Friday, July 12, 2013 9:12 AM
To: UHFSDR@yahoogroups.com
Subject: RE : [UHFSDR] FAILED part

Hi Alan

Could it be possible for you to send me a couple of SY10ep52 (U17-U18) too ? Those delivered with one of the kit were TSSOP devices (far smaller than SOIC). This kit has been ordered more than one or two years ago, and I just assembled it 2 weeks ago.

This is for my ☐spare☐ UHFSDR, so it☐s definitely not urgent. Just tell me if you have some of these IC☐s in stock and how much will it cost for DX shipping.

Tnks and 73☐
Marc f6itu

Yahoo! Groups Links

1575. RE: [UHFSDR] FAILED part

Yahoo group: UHFSDR
Date: 2013-07-19 23:46:47 UTC
From: MIKE DURKIN
Topic: 1565 Message: 1575

there was only 2 on the envelope .. that was in a padded mailer ...

To: UHFSDR@yahoogroups.com
From: alan.r.hill@...
Date: Fri, 12 Jul 2013 08:42:19 -0700
Subject: RE: [UHFSDR] FAILED part

Mike, Considering all the misc fees and costs, I think $5.00 would be close enough for three chips.73,
Alan – W6ARH From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of MIKE DURKIN
Sent: Thursday, July 11, 2013 9:34 PM
To: UHFSDR UHFSDR
Subject: RE: [UHFSDR] FAILED part Alan .. whats your price .. i think id take 3 .... i have 2 UHFSDR's ..... one for repair and the other 2 for spares.

In the past i suspected that my U8 was microphonic ... To: UHFSDR@yahoogroups.com
From: alan.r.hill@...
Date: Thu, 11 Jul 2013 20:23:52 -0700
Subject: Re: [UHFSDR] FAILED part

I can provide one.73,Alan - W6ARH On Thu, Jul 11, 2013 at 6:50 PM, Dave <dave@...> wrote: Mike:
Should work if it is in the ssop16 package. IDT has discontinued the 74FST3257Q and I couldn't find a datasheet. The FST3257 is available from Mouser, P/N 512-FST3257MX for $0.65 each.

Dave - WB6DHW
<http://wb6dhw.com>

On 7/11/2013 3:19 PM, MIKE DURKIN wrote: Would a IDT 74FST3257Q work ??To: uhfsdr@yahoogroups.com
From: Patriot121@...
Date: Thu, 11 Jul 2013 15:16:39 -0700
Subject: [UHFSDR] FAILED part

Looks like i need a new FST3257 .. any one have a spare to sell ?? U8 is not passing sound ...

1576. Carrier supression

Yahoo group: UHFSDR
Date: 2013-07-25 15:16:17 UTC
From: rhillard@...
Topic: 1576 Message: 1576

I'm still working on improving the carrier supression. I can only get around 16dB of supression. I've changed out the mixers (didn't fix the problem), and have tried adjusting the LO level into the mixers (no help here either).

Last night I found that there is a difference between the DC level on pin #2 of the mixers. U15 has 3.4mv, and U16 has 1.6mv on pin #2. This DC voltage level apparently is a function of the LO level. Higher LO level results in a lower DC level apparently generated by the mixer's diodes. I can vary the DC voltage by reducing the LO level (finger on the resistors in the attenuators feeding the mixers).

So unless the mixers aren't match very well; (one mixer creating more DC than the other one), the difference in DC levels between the two mixers, appears to be an indication that the LO drive levels to the two mixers aren't equal.

It would be helpful for me to know what voltage others are getting on pin #2 of their mixers.Also it would be helpful to know how much carrier rejection others are getting.

1577. RE: [UHFSDR] Carrier supression

Yahoo group: UHFSDR
Date: 2013-07-25 16:07:55 UTC
From: MIKE DURKIN
Topic: 1576 Message: 1577

more than 50db .....

ac or DC on the pins ...

To: UHFSDR@yahoogroups.com
From: rhillard@...
Date: Thu, 25 Jul 2013 15:16:17 +0000
Subject: [UHFSDR] Carrier supression

I'm still working on improving the carrier supression. I can only get around 16dB of supression. I've changed out the mixers (didn't fix the problem), and have tried adjusting the LO level into the mixers (no help here either).

Last night I found that there is a difference between the DC level on pin #2 of the mixers. U15 has 3.4mv, and U16 has 1.6mv on pin #2. This DC voltage level apparently is a function of the LO level. Higher LO level results in a lower DC level apparently generated by the mixer's diodes. I can vary the DC voltage by reducing the LO level (finger on the resistors in the attenuators feeding the mixers).

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1578. Re: Carrier supression

Yahoo group: UHFSDR
Date: 2013-07-25 19:59:26 UTC
From: rhillard@...
Topic: 1576 Message: 1578

Mike,

It's DC on pin #2. I went back and read my notes; DC voltage appears to track LO level (LO level increase = voltage increase on pin #2, not as originally stated)

50+dB of suppression is what I'd like to achieve.

TNX Bob

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
> more than 50db .....
>
> ac or DC on the pins ...
>
> To: UHFSDR@yahoogroups.com
> From: rhillard@...
> Date: Thu, 25 Jul 2013 15:16:17 +0000
> Subject: [UHFSDR] Carrier supression
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1579. Re: [UHFSDR] Re: Carrier supression

Yahoo group: UHFSDR
Date: 2013-07-25 23:22:10 UTC
From: Dave
Topic: 1576 Message: 1579

Mike:
How are you measuring LO suppression? If your using an SDR program
and looking at the center spike, a slight DC offset on the computer ADC
will cause a spike there. Looking at it on another receiver would be
better.
The LO is fed differientially. Check that the resistance from pin 6
of the dbm to C65/R29 is the same as from pin 1 of the DBM to C66/R29.
Neither pin 1 nor pin 6 are grounded. Also on U16 and R30.

Dave - WB6DHw
<http://wb6dhw.com>

On 7/25/2013 12:59 PM, rhillard@... wrote:
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> Mike,
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> It's DC on pin #2. I went back and read my notes; DC voltage appears
> to track LO level (LO level increase = voltage increase on pin #2, not
> as originally stated)
>
> 50+dB of suppression is what I'd like to achieve.
>
> TNX Bob
>
> --- In UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>, MIKE
> DURKIN <Patriot121@...> wrote:
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> > ac or DC on the pins ...
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> > To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> > From: rhillard@...
> > Date: Thu, 25 Jul 2013 15:16:17 +0000
> > Subject: [UHFSDR] Carrier supression
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1580. RE: [UHFSDR] Re: Carrier supression

Yahoo group: UHFSDR
Date: 2013-07-26 02:40:51 UTC
From: MIKE DURKIN
Topic: 1576 Message: 1580

since i have 2 UHFSDR's .....

I use one with a SDR2GO and another with a computer & qrp2000 ...

the computer and qrp2000 is what was used to look at the signal of the SDR2GO/UHFSDR ... at about 8khz offset of the computer/qrp2000/UHFSDR ....

With no soundcard (SDR2GO) hooked to the audio line.. Tx was set and the carrier was observed(almost non-existent) .. then the audio lines were put back on and a carrier transmitted (cw from the SDR2GO) .....

Thats how i did my first and only test of the carrier suppression ....

And im not sure Dave you were actually trying top ask me how i did it ... i think you meant to direct that to Bob ....

BTY --- dont get tricked by signal leakage from a non shielded UHFSDR's SI570 and circuitry ...

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Thu, 25 Jul 2013 16:22:10 -0700
Subject: Re: [UHFSDR] Re: Carrier supression

Mike:

How are you measuring LO suppression? If your using an SDR program and looking at the center spike, a slight DC offset on the computer ADC will cause a spike there. Looking at it on another receiver would be better.

The LO is fed differientially. Check that the resistance from pin 6 of the dbm to C65/R29 is the same as from pin 1 of the DBM to C66/R29. Neither pin 1 nor pin 6 are grounded. Also on U16 and R30.

Dave - WB6DHw

<http://wb6dhw.com>

On 7/25/2013 12:59 PM, rhillard@... wrote:

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It's DC on pin #2. I went back and read my notes; DC voltage appears to track LO level (LO level increase = voltage increase on pin #2, not as originally stated)

50+dB of suppression is what I'd like to achieve.

TNX Bob

--- In UHFSDR@yahoogroups.com,
MIKE DURKIN <Patriot121@...> wrote:

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> more than 50db .....

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> ac or DC on the pins ...

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> To: UHFSDR@yahoogroups.com

> From: rhillard@...

> Date: Thu, 25 Jul 2013 15:16:17 +0000

> Subject: [UHFSDR] Carrier supression

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> So unless the mixers aren't match very well; (one mixer creating more DC than the other one), the difference in DC levels between the two mixers, appears to be an indication that the LO drive levels to the two mixers aren't equal.

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> It would be helpful for me to know what voltage others are getting on pin #2 of their mixers.Also it would be helpful to know how much carrier rejection others are getting.

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1581. RE: [UHFSDR] Re: Carrier supression

Yahoo group: UHFSDR
Date: 2013-07-26 02:50:20 UTC
From: MIKE DURKIN
Topic: 1576 Message: 1581

Ohh ... one more question Bob ....

Are you using a CMOS Si570 or LVDS ??

Mike KC7NOA

To: uhfsdr@yahoogroups.com
From: Patriot121@...
Date: Thu, 25 Jul 2013 19:40:51 -0700
Subject: RE: [UHFSDR] Re: Carrier supression

since i have 2 UHFSDR's .....

I use one with a SDR2GO and another with a computer & qrp2000 ...

the computer and qrp2000 is what was used to look at the signal of the SDR2GO/UHFSDR ... at about 8khz offset of the computer/qrp2000/UHFSDR ....

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And im not sure Dave you were actually trying top ask me how i did it ... i think you meant to direct that to Bob ....

BTY --- dont get tricked by signal leakage from a non shielded UHFSDR's SI570 and circuitry ...

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Thu, 25 Jul 2013 16:22:10 -0700
Subject: Re: [UHFSDR] Re: Carrier supression

Mike:

How are you measuring LO suppression? If your using an SDR program and looking at the center spike, a slight DC offset on the computer ADC will cause a spike there. Looking at it on another receiver would be better.

The LO is fed differientially. Check that the resistance from pin 6 of the dbm to C65/R29 is the same as from pin 1 of the DBM to C66/R29. Neither pin 1 nor pin 6 are grounded. Also on U16 and R30.

Dave - WB6DHw

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On 7/25/2013 12:59 PM, rhillard@... wrote:

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50+dB of suppression is what I'd like to achieve.

TNX Bob

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> It would be helpful for me to know what voltage others are getting on pin #2 of their mixers.Also it would be helpful to know how much carrier rejection others are getting.

>

1582. Re: Carrier supression

Yahoo group: UHFSDR
Date: 2013-07-26 03:51:59 UTC
From: rhillard@...
Topic: 1576 Message: 1582

HI Dave,

Let me answer your question about How I'm measuring the carrier suppression -

I'm measuring it two ways:

1. Bird wattmeter on the output of the transceiver/transverter; 40w peak, 1w carrier - 16dB on 1296. Similar ratio on all three bands - 432, 902 and 1296.

2. Visually on my SDR dongle with the AGC disabled, no center spike.

The resistance check across the attenuators measured 8.7 ohms on both legs.

Bob WA6UFQ

--- In UHFSDR@yahoogroups.com, Dave <dave@...> wrote:
>
> Mike:
> How are you measuring LO suppression? If your using an SDR program
> and looking at the center spike, a slight DC offset on the computer ADC
> will cause a spike there. Looking at it on another receiver would be
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> The LO is fed differientially. Check that the resistance from pin 6
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> Neither pin 1 nor pin 6 are grounded. Also on U16 and R30.
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> Dave - WB6DHw
> <http://wb6dhw.com>
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> On 7/25/2013 12:59 PM, rhillard@... wrote:
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> > Mike,
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> > It's DC on pin #2. I went back and read my notes; DC voltage appears
> > to track LO level (LO level increase = voltage increase on pin #2, not
> > as originally stated)
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> > 50+dB of suppression is what I'd like to achieve.
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> > TNX Bob
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> > DURKIN <Patriot121@> wrote:
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> > > ac or DC on the pins ...

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> > > From: rhillard@
> > > Date: Thu, 25 Jul 2013 15:16:17 +0000
> > > Subject: [UHFSDR] Carrier supression
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1583. Re: Carrier supression

Yahoo group: UHFSDR
Date: 2013-07-26 03:55:23 UTC
From: rhillard@...
Topic: 1576 Message: 1583

Mike, my Si570A is a PECL device with the proper resistors for R46-R49.

Bob WA6UFQ

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:
>
> Ohh ... one more question Bob ....
>
> Are you using a CMOS Si570 or LVDS ??
>
> Mike KC7NOA
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> To: uhfsdr@yahoogroups.com
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> > Last night I found that there is a difference between
> the DC level on pin #2 of the mixers. U15 has 3.4mv, and
> U16 has 1.6mv on pin #2. This DC voltage level apparently
> is a function of the LO level. Higher LO level results in
> a lower DC level apparently generated by the mixer's
> diodes. I can vary the DC voltage by reducing the LO level
> (finger on the resistors in the attenuators feeding the
> mixers).
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> > So unless the mixers aren't match very well; (one
> mixer creating more DC than the other one), the difference
> in DC levels between the two mixers, appears to be an
> indication that the LO drive levels to the two mixers
> aren't equal.
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>
> > It would be helpful for me to know what voltage
> others are getting on pin #2 of their mixers.Also it would
> be helpful to know how much carrier rejection others are
> getting.
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> >
>

1584. RE: [UHFSDR] Re: Carrier supression

Yahoo group: UHFSDR
Date: 2013-07-26 13:58:51 UTC
From: MIKE DURKIN
Topic: 1576 Message: 1584

ok, cant remember that set up .. will need to look at the schematic ....

was thinking that there was a DC set point for setting the phase of the flip/flops ....

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: rhillard@austin.rr.com
Date: Fri, 26 Jul 2013 03:55:23 +0000
Subject: [UHFSDR] Re: Carrier supression

Mike, my Si570A is a PECL device with the proper resistors for R46-R49.

Bob WA6UFQ

--- In UHFSDR@yahoogroups.com, MIKE DURKIN <Patriot121@...> wrote:

>

> Ohh ... one more question Bob ....

>

> Are you using a CMOS Si570 or LVDS ??

>

> Mike KC7NOA

>

> To: uhfsdr@yahoogroups.com

> From: Patriot121@...

> Date: Thu, 25 Jul 2013 19:40:51 -0700

> Subject: RE: [UHFSDR] Re: Carrier supression

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> since i have 2 UHFSDR's .....

>

> I use one with a SDR2GO and another with a computer & qrp2000 ...

>

> the computer and qrp2000 is what was used to look at the signal of the SDR2GO/UHFSDR ... at about 8khz offset of the computer/qrp2000/UHFSDR ....

>

> With no soundcard (SDR2GO) hooked to the audio line.. Tx was set and the carrier was observed(almost non-existent) .. then the audio lines were put back on and a carrier transmitted (cw from the SDR2GO) .....

>

> Thats how i did my first and only test of the carrier suppression ....

>

>

> And im not sure Dave you were actually trying top ask me how i did it ... i think you meant to direct that to Bob ....

>

> BTY --- dont get tricked by signal leakage from a non shielded UHFSDR's SI570 and circuitry ...

>

> Mike KC7NOA

>

> To: UHFSDR@yahoogroups.com

> From: dave@...

> Date: Thu, 25 Jul 2013 16:22:10 -0700

> Subject: Re: [UHFSDR] Re: Carrier supression

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> Mike:

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> How are you measuring LO suppression? If your using an SDR

> program and looking at the center spike, a slight DC offset on the

> computer ADC will cause a spike there. Looking at it on another

> receiver would be better.

>

> The LO is fed differientially. Check that the resistance from

> pin 6 of the dbm to C65/R29 is the same as from pin 1 of the DBM

> to C66/R29. Neither pin 1 nor pin 6 are grounded. Also on U16 and

> R30.

>

>

>

> Dave - WB6DHw

>

> <http://wb6dhw.com>

>

>

>

> On 7/25/2013 12:59 PM, rhillard@... wrote:

>

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> Mike,

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>

> It's DC on pin #2. I went back and read my notes; DC

> voltage appears to track LO level (LO level increase =

> voltage increase on pin #2, not as originally stated)

>

>

>

> 50+dB of suppression is what I'd like to achieve.

>

>

>

> TNX Bob

>

>

>

> --- In UHFSDR@yahoogroups.com,

> MIKE DURKIN <Patriot121@> wrote:

>

> >

>

> > more than 50db .....

>

> >

>

> > ac or DC on the pins ...

>

> >

>

> > To: UHFSDR@yahoogroups.com

>

> > From: rhillard@

>

> > Date: Thu, 25 Jul 2013 15:16:17 +0000

>

> > Subject: [UHFSDR] Carrier supression

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> > I'm still working on improving the carrier

> supression. I can only get around 16dB of supression. I've

> changed out the mixers (didn't fix the problem), and have

> tried adjusting the LO level into the mixers (no help here

> either).

>

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> > Last night I found that there is a difference between

> the DC level on pin #2 of the mixers. U15 has 3.4mv, and

> U16 has 1.6mv on pin #2. This DC voltage level apparently

> is a function of the LO level. Higher LO level results in

> a lower DC level apparently generated by the mixer's

> diodes. I can vary the DC voltage by reducing the LO level

> (finger on the resistors in the attenuators feeding the

> mixers).

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> > So unless the mixers aren't match very well; (one

> mixer creating more DC than the other one), the difference

> in DC levels between the two mixers, appears to be an

> indication that the LO drive levels to the two mixers

> aren't equal.

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> > It would be helpful for me to know what voltage

> others are getting on pin #2 of their mixers.Also it would

> be helpful to know how much carrier rejection others are

> getting.

>

> >

>

1585. Step 167 in build notes

Yahoo group: UHFSDR
Date: 2013-08-01 02:25:15 UTC
From: Dave Miller
Topic: 1585 Message: 1585

Making good progress on my Kit.
Seem to have run into a snag at step 167.
I am using to Sig generator to test out the RX side.
What level of RF signal do you need?
Why do you have to connect H1 to computer?
It looks like the Si570 powers up defaulted to 20MHZ
Set generator to 20.010. Correct?
See signals through mixer but not past series inductors.
Any ideas.
Thanks
Dave

1586. RE: [UHFSDR] Step 167 in build notes

Yahoo group: UHFSDR
Date: 2013-08-01 03:07:19 UTC
From: MIKE DURKIN
Topic: 1585 Message: 1586

10Mhz .. its a /2 flip/flop schem to get quadrature signal ...

To: UHFSDR@yahoogroups.com
From: ve7pke@...
Date: Thu, 1 Aug 2013 02:25:15 +0000
Subject: [UHFSDR] Step 167 in build notes

Making good progress on my Kit.

Seem to have run into a snag at step 167.

I am using to Sig generator to test out the RX side.

What level of RF signal do you need?

Why do you have to connect H1 to computer?

It looks like the Si570 powers up defaulted to 20MHZ

Set generator to 20.010. Correct?

See signals through mixer but not past series inductors.

Any ideas.

Thanks

Dave

1587. Re: [UHFSDR] Step 167 in build notes

Yahoo group: UHFSDR
Date: 2013-08-01 03:17:01 UTC
From: Dave
Topic: 1585 Message: 1587

Dave:
Just about to go out to the wood working shop to do some work, so will have to check the assembly instructions later.
H1 is the control for the Si570. It goes to the ADum1251 which provides isolation and level shifting, if needed. The input requires, in addition to the I2c clock and data signals, a reference voltage and ground.
If you got the kit from Alan, the Si570 should default to 19.982 MHz. That is so that when you run SDR-IQ with a 9 KHz offset, it will tune 10 MHz WWV. So, LO to the mixers will be 9991 KHz.

Dave - WB6DHW
<http://wb6dhw.com>

On 7/31/2013 7:25 PM, Dave Miller wrote:
>
> Making good progress on my Kit.
> Seem to have run into a snag at step 167.
> I am using to Sig generator to test out the RX side.
> What level of RF signal do you need?
> Why do you have to connect H1 to computer?
> It looks like the Si570 powers up defaulted to 20MHZ
> Set generator to 20.010. Correct?
> See signals through mixer but not past series inductors.
> Any ideas.
> Thanks
> Dave
>
> --

1588. Re: [UHFSDR] Step 167 in build notes

Yahoo group: UHFSDR
Date: 2013-08-01 03:32:08 UTC
From: Dave Miller
Topic: 1585 Message: 1588

Thanks, Dave
Works now with a right frequency. Also might have had a poor connector on
tacked on antenna connector.
Enjoy making dust not smoke. ;-)
Dave

On Wed, Jul 31, 2013 at 8:17 PM, Dave <dave@...> wrote:

> **
>
>
> Dave:
> Just about to go out to the wood working shop to do some work, so will
> have to check the assembly instructions later.
> H1 is the control for the Si570. It goes to the ADum1251 which provides
> isolation and level shifting, if needed. The input requires, in addition
> to the I2c clock and data signals, a reference voltage and ground.
> If you got the kit from Alan, the Si570 should default to 19.982 MHz.
> That is so that when you run SDR-IQ with a 9 KHz offset, it will tune 10
> MHz WWV. So, LO to the mixers will be 9991 KHz.
>
> Dave - WB6DHW
> <http://wb6dhw.com> <http://wb6dhw.com>
>
>
> On 7/31/2013 7:25 PM, Dave Miller wrote:
>
>
>
> Making good progress on my Kit.
> Seem to have run into a snag at step 167.
> I am using to Sig generator to test out the RX side.
> What level of RF signal do you need?
> Why do you have to connect H1 to computer?
> It looks like the Si570 powers up defaulted to 20MHZ
> Set generator to 20.010. Correct?
> See signals through mixer but not past series inductors.
> Any ideas.
> Thanks
> Dave
>
>
>
>

1589. Re: [UHFSDR] Step 167 in build notes

Yahoo group: UHFSDR
Date: 2013-08-01 03:33:28 UTC
From: Dave Miller
Topic: 1585 Message: 1589

Thanks Mike for catching that. I thought I tried 10ish MHZ first. Working now.
Thanks
Dave
VE7PKE

On Wed, Jul 31, 2013 at 8:07 PM, MIKE DURKIN <Patriot121@...> wrote:

> **
>
>
> 10Mhz .. its a /2 flip/flop schem to get quadrature signal ...
>
> ----------
> To: UHFSDR@yahoogroups.com
> From: ve7pke@...
> Date: Thu, 1 Aug 2013 02:25:15 +0000
> Subject: [UHFSDR] Step 167 in build notes
>
>
> Making good progress on my Kit.
> Seem to have run into a snag at step 167.
> I am using to Sig generator to test out the RX side.
> What level of RF signal do you need?
> Why do you have to connect H1 to computer?
> It looks like the Si570 powers up defaulted to 20MHZ
> Set generator to 20.010. Correct?
> See signals through mixer but not past series inductors.
> Any ideas.
> Thanks
> Dave
>
>
>
>

1590. for sale -- uhfsdr

Yahoo group: UHFSDR
Date: 2013-08-05 03:15:59 UTC
From: MIKE DURKIN
Topic: 1590 Message: 1590

assembled UHFSDR ... iv used it for more than a year now ....

looking for what ever SilverFox is looking for in a complete kit plus shipping .... has lvds class "A" Si570

1591. STM32-SDR now has a website.

Yahoo group: UHFSDR
Date: 2013-08-06 00:26:25 UTC
From: Dave Miller
Topic: 1591 Message: 1591

Please excuse the intrusion. I want to tell you about a project that I and a group from AQRP (Austin TX QRP) have been working on. I am just finishing up my UHDSDR kit and it should play nicely with the UHFSDR.

STM32-SDR (SDR Sans PC) the project that replaces the PC when hooked up to a I/Q based RF deck has a website now. This project is a open source software with a hardware board available. The UHFSDR was taken into account when it was designed.
More information on the project with pictures and documentation can be found at www.stm32-sdr.com

Drop by and get more details.

If you have interest make sure you also drop an email to stm32sdr@... to get on the email updates list for more up to date information.

Thanks for you interest.
Dave Miller
VE7PKE

1592. Re: [UHFSDR] for sale -- uhfsdr

Yahoo group: UHFSDR
Date: 2013-08-06 00:40:13 UTC
From: Jim Sanford
Topic: 1590 Message: 1592

Mike:

I'm not familiar with the v arious flavors of Si570 . . . . what is
frequency range?

Thanks,
Jim
wb4gcs@...

On 8/4/2013 11:15 PM, MIKE DURKIN wrote:
>
> assembled UHFSDR ... iv used it for more than a year now ....
>
> looking for what ever SilverFox is looking for in a complete kit plus
> shipping .... has lvds class "A" Si570
>

1593. RE: [UHFSDR] for sale -- uhfsdr

Yahoo group: UHFSDR
Date: 2013-08-06 02:55:30 UTC
From: MIKE DURKIN
Topic: 1590 Message: 1593

the Si570 in this UHFSDR would allow Rx/Tx from 1.78Mhz to around 705Mhz ...

To: UHFSDR@yahoogroups.com
From: wb4gcs@...
Date: Mon, 5 Aug 2013 20:40:13 -0400
Subject: Re: [UHFSDR] for sale -- uhfsdr

Mike:

I'm not familiar with the v arious flavors of Si570 . . . . what is
frequency range?

Thanks,

Jim

wb4gcs@...

On 8/4/2013 11:15 PM, MIKE DURKIN
wrote:

assembled UHFSDR ... iv used it for more than
a year now ....

looking for what ever SilverFox is looking for in a
complete kit plus shipping .... has lvds class "A" Si570

1594. RE: [UHFSDR] STM32-SDR now has a website.

Yahoo group: UHFSDR
Date: 2013-08-06 02:56:53 UTC
From: MIKE DURKIN
Topic: 1591 Message: 1594

wish it did Am/Fm too ...

To: UHFSDR@yahoogroups.com
From: ve7pke@...m
Date: Tue, 6 Aug 2013 00:26:25 +0000
Subject: [UHFSDR] STM32-SDR now has a website.

Please excuse the intrusion. I want to tell you about a project that I and a group from AQRP (Austin TX QRP) have been working on. I am just finishing up my UHDSDR kit and it should play nicely with the UHFSDR.

STM32-SDR (SDR Sans PC) the project that replaces the PC when hooked up to a I/Q based RF deck has a website now. This project is a open source software with a hardware board available. The UHFSDR was taken into account when it was designed.

More information on the project with pictures and documentation can be found at

www.stm32-sdr.com

Drop by and get more details.

If you have interest make sure you also drop an email to stm32sdr@... to get on the email updates list for more up to date information.

Thanks for you interest.

Dave Miller

VE7PKE

1595. Re: [UHFSDR] for sale -- uhfsdr

Yahoo group: UHFSDR
Date: 2013-08-06 03:02:12 UTC
From: Jim Sanford
Topic: 1590 Message: 1595

Thanks!

On 8/5/2013 10:55 PM, MIKE DURKIN wrote:
>
> the Si570 in this UHFSDR would allow Rx/Tx from 1.78Mhz to around
> 705Mhz ...
>
> ----------
> To: UHFSDR@yahoogroups.com
> From: wb4gcs@...
> Date: Mon, 5 Aug 2013 20:40:13 -0400
> Subject: Re: [UHFSDR] for sale -- uhfsdr
>
> Mike:
>
> I'm not familiar with the v arious flavors of Si570 . . . . what is
> frequency range?
>
> Thanks,
> Jim
> wb4gcs@... <mailto:wb4gcs@...>
>
>
> On 8/4/2013 11:15 PM, MIKE DURKIN wrote:
>
>
> assembled UHFSDR ... iv used it for more than a year now ....
>
> looking for what ever SilverFox is looking for in a complete kit
> plus shipping .... has lvds class "A" Si570
>
>
>
>

1596. Re: [UHFSDR] STM32-SDR now has a website.

Yahoo group: UHFSDR
Date: 2013-08-06 03:06:46 UTC
From: Dave Miller
Topic: 1591 Message: 1596

It's only software. ;-) I expect it will do these modes sooner than later.
It's open source software and will be possible to add these extra modes.
The software is being written so its straight forward to add screens and new modes. That is the power of SDR.
Once boards get in the hands of users I expect things like that may happen quickly.

Mike it's on my wish list.

Thanks for good question. So much to do so little time.

Dave
VE7PKE

Sent from my iPhone

On 2013-08-05, at 19:56, MIKE DURKIN <Patriot121@...> wrote:

> wish it did Am/Fm too ...
>
> To: UHFSDR@yahoogroups.com
> From: ve7pke@...
> Date: Tue, 6 Aug 2013 00:26:25 +0000
> Subject: [UHFSDR] STM32-SDR now has a website.
>
>
> Please excuse the intrusion. I want to tell you about a project that I and a group from AQRP (Austin TX QRP) have been working on. I am just finishing up my UHDSDR kit and it should play nicely with the UHFSDR.
>
> STM32-SDR (SDR Sans PC) the project that replaces the PC when hooked up to a I/Q based RF deck has a website now. This project is a open source software with a hardware board available. The UHFSDR was taken into account when it was designed.
> More information on the project with pictures and documentation can be found at
> www.stm32-sdr.com
>
> Drop by and get more details.
>
> If you have interest make sure you also drop an email to stm32sdr@... to get on the email updates list for more up to date information.
>
> Thanks for you interest.
> Dave Miller
> VE7PKE
>
>
>

1597. Re: [UHFSDR] STM32-SDR now has a website.

Yahoo group: UHFSDR
Date: 2013-08-06 03:27:47 UTC
From: Dave
Topic: 1591 Message: 1597

Mike:
I've used it on 2 meters and 70cm NBFM. I have also used it to
receive AM(never tried transmitting). Depends on the software. Will not
do wideband FM.

Dave - WB6DHW
<http://wb6dhw.com>

On 8/5/2013 7:56 PM, MIKE DURKIN wrote:
>
> wish it did Am/Fm too ...
>
> ---
> To: UHFSDR@yahoogroups.com
> From: ve7pke@...
> Date: Tue, 6 Aug 2013 00:26:25 +0000
> Subject: [UHFSDR] STM32-SDR now has a website.
>
> Please excuse the intrusion. I want to tell you about a project that I
> and a group from AQRP (Austin TX QRP) have been working on. I am just
> finishing up my UHDSDR kit and it should play nicely with the UHFSDR.
>
> STM32-SDR (SDR Sans PC) the project that replaces the PC when hooked
> up to a I/Q based RF deck has a website now. This project is a open
> source software with a hardware board available. The UHFSDR was taken
> into account when it was designed.
> More information on the project with pictures and documentation can be
> found at
> www.stm32-sdr.com
>
> Drop by and get more details.
>
> If you have interest make sure you also drop an email to
> stm32sdr@... <mailto:stm32sdr%40gmail.com> to get on the email
> updates list for more up to date information.
>
> Thanks for you interest.
> Dave Miller
> VE7PKE
>
>
> __.,_._,___

1598. RE: [UHFSDR] STM32-SDR now has a website.

Yahoo group: UHFSDR
Date: 2013-08-06 07:00:50 UTC
From: Marc OLANIE
Topic: 1591 Message: 1598

Very nice project Dave

Some questions :-) (you know how Hams are)

- do you intend to sell a real "kit"? I mean many Hams around here, and particularly in the UHFSDR or SDR-Widget SDR community, fell absolutely confident soldering QFPN144 IC's. They really don't need pre-chewed home brewing.
-What is the usable bandwidth ? (192k said the TLV320AIC3204 datasheet but...)
- did you consider developing a firmware able to deal with AT050TN33? this kind of 5" TFT's are widely used in the Ham community (Pic-A-Star for example), are at the very same price, sometime lower, than the 3" screen you use, and a bit wider for guys like me who have "big fingers" :-/
- could it be possible to only use the Si570/display unit and "disengage" the signal processing clutch (for people using a better audio processor)

Thnks for your efforts and developpement
73'
Marc f6itu

-----Message d'origine-----
De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] De la part de Dave Miller
Envoyé : mardi 6 août 2013 02:26
À : UHFSDR@yahoogroups.com
Objet : [UHFSDR] STM32-SDR now has a website.

Please excuse the intrusion. I want to tell you about a project that I and a group from AQRP (Austin TX QRP) have been working on. I am just finishing up my UHDSDR kit and it should play nicely with the UHFSDR.

STM32-SDR (SDR Sans PC) the project that replaces the PC when hooked up to a I/Q based RF deck has a website now. This project is a open source software with a hardware board available. The UHFSDR was taken into account when it was designed.
More information on the project with pictures and documentation can be found at www.stm32-sdr.com

Drop by and get more details.

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Thanks for you interest.
Dave Miller
VE7PKE

Yahoo! Groups Links

1599. Re: [UHFSDR] STM32-SDR now has a website.

Yahoo group: UHFSDR
Date: 2013-08-06 07:33:16 UTC
From: MCH
Topic: 1591 Message: 1599

How are you defining Wideband? The FCC definition (200
kHz BW) or the Wide Land Mobile definition (16 kHz BW)?

Joe M.

Dave wrote:
>
>
> Mike:
> I've used it on 2 meters and 70cm NBFM. I have also used it to
> receive AM(never tried transmitting). Depends on the software. Will
> not do wideband FM.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 8/5/2013 7:56 PM, MIKE DURKIN wrote:
>>
>>
>> wish it did Am/Fm too ...
>>
>> ---
>> To: UHFSDR@yahoogroups.com
>> From: ve7pke@...
>> Date: Tue, 6 Aug 2013 00:26:25 +0000
>> Subject: [UHFSDR] STM32-SDR now has a website.
>>
>>
>> Please excuse the intrusion. I want to tell you about a project that I
>> and a group from AQRP (Austin TX QRP) have been working on. I am just
>> finishing up my UHDSDR kit and it should play nicely with the UHFSDR.
>>
>> STM32-SDR (SDR Sans PC) the project that replaces the PC when hooked
>> up to a I/Q based RF deck has a website now. This project is a open
>> source software with a hardware board available. The UHFSDR was taken
>> into account when it was designed.
>> More information on the project with pictures and documentation can be
>> found at
>> www.stm32-sdr.com
>>
>> Drop by and get more details.
>>
>> If you have interest make sure you also drop an email to
>> stm32sdr@... <mailto:stm32sdr%40gmail.com> to get on the email
>> updates list for more up to date information.

```
>>
>> Thanks for you interest.
>> Dave Miller
>> VE7PKE
>>
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> ----------------------------------------------------------------------
>
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 9.0.932 / Virus Database: 3209.1.1/6053 - Release Date: 08/05/13 08:35:00
>
```

1600. Re: [UHFSDR] STM32-SDR now has a website.

Yahoo group: UHFSDR
Date: 2013-08-06 08:06:22 UTC
From: Dave
Topic: 1591 Message: 1600

MCH:
200 KHz as in broadcast FM. My comments were my experiences with PowerSDR-IQ and the UHFSDR. Max bandwidth depends on the A/D sample speed, the software, and any filters. The UHFSDR has a 50 KHz filter in each channel, limiting bandwidth to 100 KHz. The filter could, of course, be re-deisgned for higher frequency. The $20 SDR dongles were designed for digital TV and with SDR# have no problem with broadcast FM.

Dave - WB6DHW
<http://wb6dhw.com>

On 8/6/2013 12:33 AM, MCH wrote:
>
> How are you defining Wideband? The FCC definition (200
> kHz BW) or the Wide Land Mobile definition (16 kHz BW)?
>
> Joe M.
>
> Dave wrote:
> >
> >
> > Mike:
> > I've used it on 2 meters and 70cm NBFM. I have also used it to
> > receive AM(never tried transmitting). Depends on the software. Will
> > not do wideband FM.
> >
> > Dave - WB6DHW
> > <http://wb6dhw.com>
> >
> > On 8/5/2013 7:56 PM, MIKE DURKIN wrote:
> >>
> >>
> >> wish it did Am/Fm too ...
> >>
> >> ---
> >> To: UHFSDR@yahoogroups.com <mailto:UHFSDR%40yahoogroups.com>
> >> From: ve7pke@... <mailto:ve7pke%40gmail.com>
> >> Date: Tue, 6 Aug 2013 00:26:25 +0000
> >> Subject: [UHFSDR] STM32-SDR now has a website.
> >>
> >>
> >> Please excuse the intrusion. I want to tell you about a project that I
> >> and a group from AQRP (Austin TX QRP) have been working on. I am just
> >> finishing up my UHDSDR kit and it should play nicely with the UHFSDR.
> >>

> >> STM32-SDR (SDR Sans PC) the project that replaces the PC when hooked
> >> up to a I/Q based RF deck has a website now. This project is a open
> >> source software with a hardware board available. The UHFSDR was taken
> >> into account when it was designed.
> >> More information on the project with pictures and documentation can be
> >> found at
> >> www.stm32-sdr.com
> >>
> >> Drop by and get more details.
> >>
> >> If you have interest make sure you also drop an email to
> >> stm32sdr@... <mailto:stm32sdr%40gmail.com>
> <mailto:stm32sdr%40gmail.com> to get on the email
> >> updates list for more up to date information.
> >>
> >> Thanks for you interest.
> >> Dave Miller
> >> VE7PKE
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> > ----------
> >
> >
> > No virus found in this incoming message.
> > Checked by AVG - www.avg.com
> > Version: 9.0.932 / Virus Database: 3209.1.1/6053 - Release Date:
> 08/05/13 08:35:00
> >
>
>

1601. RE: [UHFSDR] STM32-SDR now has a website.

Yahoo group: UHFSDR
Date: 2013-08-06 13:08:42 UTC
From: MIKE DURKIN
Topic: 1591 Message: 1601

thats cool .. didint know you had a STM32-SDR ...

now im really interested ... to replace my SDR2GO !!!!

To: UHFSDR@yahoogroups.com
From: dave@wb6dhw.com
Date: Mon, 5 Aug 2013 20:27:47 -0700
Subject: Re: [UHFSDR] STM32-SDR now has a website.

Mike:

I've used it on 2 meters and 70cm NBFM. I have also used it to
receive AM(never tried transmitting). Depends on the software.
Will not do wideband FM.

Dave - WB6DHW

<http://wb6dhw.com>

On 8/5/2013 7:56 PM, MIKE DURKIN wrote:

wish it did Am/Fm too ...

To: UHFSDR@yahoogroups.com

From: ve7pke@...

Date: Tue, 6 Aug 2013 00:26:25 +0000

Subject: [UHFSDR] STM32-SDR now has a website.

Please excuse the intrusion.
I want to tell you about a project that I and a
group from AQRP (Austin TX QRP) have been working
on. I am just finishing up my UHDSDR kit and it
should play nicely with the UHFSDR.

STM32-SDR (SDR Sans PC) the project that replaces
the PC when hooked up to a I/Q based RF deck has a
website now. This project is a open source
software with a hardware board available. The
UHFSDR was taken into account when it was
designed.

More information on the project with pictures and
documentation can be found at

www.stm32-sdr.com

Drop by and get more details.

If you have interest make sure you also drop an email to stm32sdr@...
to get on the email updates list for more up to date information.

Thanks for you interest.

Dave Miller

VE7PKE

1602. Re: [UHFSDR] STM32-SDR now has a website.

Yahoo group: UHFSDR
Date: 2013-08-06 14:06:59 UTC
From: James Hall
Topic: 1591 Message: 1602

This is a very cool project.
I had a couple of questions:

Is there enough cpu power to do digital modes as well? PSK31, RTTY, SSTV, Packet, maybe more obscure?
If not, would it be hard to add a second board for those?
Have you seen the HackRF project on kickstarter? That might be another community that these would be good for.

James

On Mon, Aug 5, 2013 at 8:26 PM, Dave Miller <ve7pke@...> wrote:

> **
>
>
> Please excuse the intrusion. I want to tell you about a project that I and
> a group from AQRP (Austin TX QRP) have been working on. I am just finishing
> up my UHDSDR kit and it should play nicely with the UHFSDR.
>
> STM32-SDR (SDR Sans PC) the project that replaces the PC when hooked up to
> a I/Q based RF deck has a website now. This project is a open source
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> More information on the project with pictures and documentation can be
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> www.stm32-sdr.com
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> Drop by and get more details.
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> If you have interest make sure you also drop an email to
> stm32sdr@... to get on the email updates list for more up to date
> information.
>
> Thanks for you interest.
> Dave Miller
> VE7PKE
>
>
>

1603. Re: [UHFSDR] STM32-SDR now has a website.

Yahoo group: UHFSDR
Date: 2013-08-06 14:21:03 UTC
From: Dave Miller
Topic: 1591 Message: 1603

Marc,
Thanks for your interest.
Questions are always good.
The initial focus is to provide the hardware and software support to the largest group of people. So this means some decisions have been made on what we are doing both on the hardware and software side.

In the short term the kits will be a semi kit meaning the SMT parts will be installed. I have in my plans an option offering the bare board only with no parts. But this is not first thing to get done. I believe that offering a bare board and a bag of parts may be possible but not in my short term plans. Shipping SMT parts in a bag is going to be costly when the extra packaging and handling is factored in. I agree there are many people out there capable of working from a bare board. I do it all the time. Our goal shared with the group involved has been to provide the best experience to the people wanting to work with our project. We also are attempting to do this at the lowest possible cost. The feedback I have to date even from a few hard core always build from scratch types has been positive with the semi kit.

Software is what makes SDR tick, providing an easily accessible hardware platform to support the software effort is the focus of this project. The number of people that can hand solder fine pitch SMT and write advanced DSP is small. The group that either have the software skills or want to learn more about the software side is I believe a large group. That's is what this project is about.

You also could consider if you want to solder the parts on we will provide you that opportunity with our innovative packaging and labelling technique. It will involving de soldering the parts first, organizing them then reinstalling.

The feedback to date I have received and I am keeping track is 90% are happy with semi kit and 10% want to solder SMT parts on. If you have not yet drop an email to stm32sdr@... with your interest and desire for bare board and no parts or a bare board and a bag of parts. Once I fully understand the demand I will prioritize the response.

The bandwidth is a function of the hardware and the software.
The codec ADC and DAC both support 192 KHz rate.
I believe the Processor is capable of reading data at that rate.
The question will be can the processor do all the FFT's and other processing in time and keep up.
The processor in the early benchmarks proved to be much more powerful than the DSPic's.
The current focus on the software side is to get a baseline of functionality completed and tested. The amount of effort to accomplish this cannot be understated. It is coming along nicely but by no means complete but has progressed to the point that "basic DSP and functionality" has been obtained to to the point that on air QSO's have been made by myself and others in the development team. Does this mean that its ready for general consumption and that its at the same class as a commercial radio. NOPE. Every day things are moving ahead.

With our focus on basic functionality we are currently working with an 8 kHz sample rate. This decision is based on its adequate for our purposes right now. Once we reach our first goal of a stable useable software platform I would vote for cranking up the sample rate to see what we can accomplish. Don't forget this is a Open source software project, once you get or build a board and compile the software you can test the limits yourself. I have not done the benchmarks myself , And don't have the current results at hand but its all about how much time we have between interrupts to process and do screen updates. There is lots to do and in many ways the hardware is waiting for the software to catch up. The development of the graphics support has been the main focus recently and getting that framework working, tested and integrated is nearing completion. Once that is completed back on to adding functionality.

Please remember this is not a full time project for anyone. The developers are doing this when time and energy permits. Some are retired with busy lives, others are fitting it around other commitments. Supporting the project by buying boards when available or contributing to the software or testing will move this project ahead. If it becomes wildly popular it is possible it could support some full time programming effort.

I am not familiar with the display you mentioned. This display was chosen based on price, functionality and availability. If your display happens to have a common interface it is theoretically possible to support it. You would have to re write the graphics support low level stuff. Just had a look. It's a RGB interface. The display we use has a built in touch screen and LCD controller. Different animal. I don't see it happening on this board. I would love to have a larger display. Given a compatible hardware interface anything is possible. It's Open Source Software.

Marc,
As I have mentioned many times the software is open source. The hardware connections (schematic) is on the website. If you have the skills to modify the software to your requirements you can do it.
If not you will have to find someone to do it. You can modify the code to do what ever you want the hardware pins to do.
So what do you consider better audio processor?
I expect there could be another generation of board and I like doing boards so let me know your wish list. I will look at it.

Dropping me a note directly will allow us to explore your other requirements.
Thanks Marc and I welcome the questions.

Dave
VE7PKE

Sent from my iPad

On 2013-08-06, at 12:00 AM, "Marc OLANIE" <Marc.olanie@...> wrote:

> Very nice project Dave
>
> Some questions :-) (you know how Hams are)
>
> - do you intend to sell a real "kit"? I mean many Hams around here, and particularly in the UHFSDR or SDR-Widget SDR community, fell absolutely confident soldering QFPN144 IC's. They really don't need pre-chewed home brewing.

> -What is the usable bandwidth ? (192k said the TLV320AIC3204 datasheet but...)
> - did you consider developing a firmware able to deal with AT050TN33? this kind of 5" TFT's are widely used in the Ham community (Pic-A-Star for example), are at the very same price, sometime lower, than the 3" screen you use, and a bit wider for guys like me who have "big fingers" :-/
> - could it be possible to only use the Si570/display unit and "disengage" the signal processing clutch (for people using a better audio processor)
>
> Thnks for your efforts and developpement
> 73'
> Marc f6itu
>
> -----Message d'origine-----
> De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] De la part de Dave Miller
> Envoyé : mardi 6 août 2013 02:26
> À : UHFSDR@yahoogroups.com
> Objet : [UHFSDR] STM32-SDR now has a website.
>
> Please excuse the intrusion. I want to tell you about a project that I and a group from AQRP (Austin TX QRP) have been working on. I am just finishing up my UHDSDR kit and it should play nicely with the UHFSDR.
>
> STM32-SDR (SDR Sans PC) the project that replaces the PC when hooked up to a I/Q based RF deck has a website now. This project is a open source software with a hardware board available. The UHFSDR was taken into account when it was designed.
> More information on the project with pictures and documentation can be found at www.stm32-sdr.com
>
> Drop by and get more details.
>
> If you have interest make sure you also drop an email to stm32sdr@... to get on the email updates list for more up to date information.
>
> Thanks for you interest.
> Dave Miller
> VE7PKE
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>

1604. RE: [UHFSDR] STM32-SDR now has a website.

Yahoo group: UHFSDR
Date: 2013-08-06 15:48:40 UTC
From: Marc OLANIE
Topic: 1591 Message: 1604

Hi Dave

A big thank you for this detailed answer. Be sure that I fully understand your motivations, constraints and goals, and I hope you didn't take my question for a "negative criticism". All of them where really "candid interrogations". You definitely made a wonderful project.

You're right. Kitting such a project is a really heavy job. A simple bare pcb will be fare enough for people with abnormal demand/needs/brain.

… and your answer could be definitely added to the FAQ section of your website, to avoid other stupid questions like mine.

Tnks again for your precisions

73'

Marc

PS : "better audio processor" here is a couple of SDR-Widget and an Asus sound card that gives very surprising good results. But I was only considering the performance of the board, not the "look Ma, no computer" aspect of your project

1605. Re: [UHFSDR] STM32-SDR now has a website.

Yahoo group: UHFSDR
Date: 2013-08-06 16:58:13 UTC
From: Dave Miller
Topic: 1591 Message: 1605

No offense taken, I enjoy good discussion.
I will look at adding your questions to the FAQ.
I don't think anyone has claimed the codec chosen was the best one out there. Once the dust settles and there is someone willing to support the software side I will gladly consider another board or two. I had another codec picked but existing software support end experience dictates this one.
Looking at the SDR-Widget there are pluses and minus. I see the ADC is single stereo channel. So we would need two, Did not check the DAC, I suspect we would need two. more parts, bigger board more cost.

Low power and small footprint were several of our design goals.
I still stand by as a transceiver you will have much better results if you dont use USB to move audio back and forth and divorce yourself from an OS.

Time will prove me right or wrong. ;-)

Dave
On Tue, Aug 6, 2013 at 8:48 AM, Marc OLANIE <Marc.olanie@...> wrote:

> **
>
>
> Hi Dave****
>
> A big thank you for this detailed answer. Be sure that I fully understand
> your motivations, constraints and goals, and I hope you didn’t take my
> question for a “negative criticism”. All of them where really “candid
> interrogations”. You definitely made a wonderful project.****
>
> ** **
>
> You’re right. Kitting such a project is a really heavy job. A simple bare
> pcb will be fare enough for people with abnormal demand/needs/brain. ****
>
> ** **
>
> … and your answer could be definitely added to the FAQ section of your
> website, to avoid other stupid questions like mine. ****
>
> Tnks again for your precisions****
>
> 73’****
>
> Marc ****
>
> ** **

>
> PS : “better audio processor” here is a couple of SDR-Widget and an Asus
> sound card that gives very surprising good results. But I was only
> considering the performance of the board, not the “look Ma, no computer”
> aspect of your project****
>
> ****
>
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>

1606. Re: [UHFSDR] STM32-SDR now has a website.

Yahoo group: UHFSDR
Date: 2013-08-06 17:10:03 UTC
From: Dave Miller
Topic: 1591 Message: 1606

James,
Thanks.
If you have a chance to look at the You tube video you will see its already does PSK 31 transceive. No reason why it can't do all the other modes. BTW Milt of NUE modem fame is part of the team. His code was the basis of the PSK. It's an issue of software. I will be glad to check in code for your other modes. I am confident there is enough performance for those modes. software is being crafted in a way that enhancements like this will be possible. But it won't be in the first public release for sure. ;-)
Remember the code is open source. You can add this functionality. Its only software ;-)

I have not looked at HackRF.
To be honest its hard enough for me to stay focused on getting this project out the door and into production. For others who have done this they understand all the things to do. I am not delegating things just doing it myself. I will have a look when I get next run of boards into production .

Thanks for you interest.
Dave
VE7PKE

On Tue, Aug 6, 2013 at 7:06 AM, James Hall <hall.jamesr@...> wrote:

> **
>
>
> This is a very cool project.
> I had a couple of questions:
>
> Is there enough cpu power to do digital modes as well? PSK31, RTTY, SSTV,
> Packet, maybe more obscure?
> If not, would it be hard to add a second board for those?
> Have you seen the HackRF project on kickstarter? That might be another
> community that these would be good for.
>
> James
>
> On Mon, Aug 5, 2013 at 8:26 PM, Dave Miller <ve7pke@...> wrote:
>
>> **
>>
>>
>> Please excuse the intrusion. I want to tell you about a project that I
>> and a group from AQRP (Austin TX QRP) have been working on. I am just
>> finishing up my UHDSDR kit and it should play nicely with the UHFSDR.

>>
>> STM32-SDR (SDR Sans PC) the project that replaces the PC when hooked up
>> to a I/Q based RF deck has a website now. This project is a open source
>> software with a hardware board available. The UHFSDR was taken into account
>> when it was designed.
>> More information on the project with pictures and documentation can be
>> found at
>> www.stm32-sdr.com
>>
>> Drop by and get more details.
>>
>> If you have interest make sure you also drop an email to
>> stm32sdr@... to get on the email updates list for more up to date
>> information.
>>
>> Thanks for you interest.
>> Dave Miller
>> VE7PKE
>>
>>
>
>

1607. RE: [UHFSDR] STM32-SDR now has a website.

Yahoo group: UHFSDR
Date: 2013-08-06 17:52:14 UTC
From: Marc OLANIE
Topic: 1591 Message: 1607

Hi Dave

>Low power and small footprint were several of our design goals.

That's definitely a killer argument. One could argue about the difference between a software define radio and a "firmware" defined radio (limited by definition by the size of the processor), but for field days and people looking for a "one box rig", SDR2GO and it's evolution is the only elegant way.

>I still stand by as a transceiver you will have much better results if you dont use USB to move audio back and forth and divorce yourself from an OS.

That's sounds logical. But no OS means no way to deal with a multitude of modulation schemes too. In another way, we are seeing more and more small footprint CPU board (Odroid X2 and other "über-raspberry" mobo). The difference between a rig with a mobo with a portable/embedded OS and software and a full featured firmware-base tranceiver is less important in terms of performance but non in terms of functionality. Working with SDR is a tradeoff. You'll ever have to choose between flexibility, funtioality and portability.

Every ham dreams of a small portable SDR with all the possible modulation/demodulation possibilities and the widest bandwidth displayed on the screen :-D .

>Time will prove me right or wrong. ;-)

I'm pretty sure you're right. The STM32 is a "keep it simple" solution (and universal if you're able to deal with "by 2" and " by 4" clock ratio, as advertised). Hop you'll quickly add NBFM . I've a UHFSDR waiting for it :-D

73'++

Marc f6itu

1608. Re: [UHFSDR] STM32-SDR now has a website.

Yahoo group: UHFSDR
Date: 2013-08-06 18:02:22 UTC
From: James Hall
Topic: 1591 Message: 1608

Thank you Dave, I felt a little silly after sending that email since I asked about the PSK. I read the website a little more and saw that it does that already. Then I remembered seeing that exact video before.
Looks great already! Hope it's not stressing you out.

James

On Tue, Aug 6, 2013 at 1:10 PM, Dave Miller <ve7pke@...> wrote:

> **
>
>
> James,
> Thanks.
> If you have a chance to look at the You tube video you will see its
> already does PSK 31 transceive. No reason why it can't do all the other
> modes. BTW Milt of NUE modem fame is part of the team. His code was the
> basis of the PSK. It's an issue of software. I will be glad to check in
> code for your other modes. I am confident there is enough performance for
> those modes. software is being crafted in a way that enhancements like
> this will be possible. But it won't be in the first public release for
> sure. ;-)
> Remember the code is open source. You can add this functionality. Its only
> software ;-)
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> I have not looked at HackRF.
> To be honest its hard enough for me to stay focused on getting this
> project out the door and into production. For others who have done this
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> it myself. I will have a look when I get next run of boards into production
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>
> Thanks for you interest.
> Dave
> VE7PKE
>
>
>
> On Tue, Aug 6, 2013 at 7:06 AM, James Hall <hall.jamesr@...> wrote:
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>> This is a very cool project.
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>> Is there enough cpu power to do digital modes as well? PSK31, RTTY, SSTV,
>> Packet, maybe more obscure?
>> If not, would it be hard to add a second board for those?
>> Have you seen the HackRF project on kickstarter? That might be another
>> community that these would be good for.
>>
>> James
>>
>> On Mon, Aug 5, 2013 at 8:26 PM, Dave Miller <ve7pke@...> wrote:
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>>> Please excuse the intrusion. I want to tell you about a project that I
>>> and a group from AQRP (Austin TX QRP) have been working on. I am just
>>> finishing up my UHDSDR kit and it should play nicely with the UHFSDR.
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>>> STM32-SDR (SDR Sans PC) the project that replaces the PC when hooked up
>>> to a I/Q based RF deck has a website now. This project is a open source
>>> software with a hardware board available. The UHFSDR was taken into account
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>>> If you have interest make sure you also drop an email to
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>>> Thanks for you interest.
>>> Dave Miller
>>> VE7PKE
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>>>
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1609. Re: [UHFSDR] STM32-SDR now has a website.

Yahoo group: UHFSDR
Date: 2013-08-06 18:13:52 UTC
From: Dave Miller
Topic: 1591 Message: 1609

No worries. I am having fun. Just must stay focused. ;-) Much better than having nothing to do. Especially with the great HF propagation these days.
It's so rewarding to get any interest. The group has been putting in many hours to get it where it is. It has lots of possibilities. Everyone is hoping for interest to grow.
From my experience getting the baby delivered is lots of hard work.
Thanks
Dave

Sent from my iPhone

On 2013-08-06, at 11:02, James Hall <hall.jamesr@...> wrote:

> Thank you Dave, I felt a little silly after sending that email since I asked about the PSK. I read the website a little more and saw that it does that already. Then I remembered seeing that exact video before.
>
> Looks great already! Hope it's not stressing you out.
>
> James
>
> On Tue, Aug 6, 2013 at 1:10 PM, Dave Miller <ve7pke@...> wrote:
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>> James,
>> Thanks.
>> If you have a chance to look at the You tube video you will see its already does PSK 31 transceive. No reason why it can't do all the other modes. BTW Milt of NUE modem fame is part of the team. His code was the basis of the PSK. It's an issue of software. I will be glad to check in code for your other modes. I am confident there is enough performance for those modes. software is being crafted in a way that enhancements like this will be possible. But it won't be in the first public release for sure. ;-)
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>> I have not looked at HackRF.
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>> Thanks for you interest.
>> Dave
>> VE7PKE
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>>
>> On Tue, Aug 6, 2013 at 7:06 AM, James Hall <hall.jamesr@gmail.com> wrote:
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>>> This is a very cool project.
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>>>
>>> Is there enough cpu power to do digital modes as well? PSK31, RTTY, SSTV, Packet, maybe more obscure?
>>> If not, would it be hard to add a second board for those?
>>> Have you seen the HackRF project on kickstarter? That might be another community that these would be good for.
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>>> On Mon, Aug 5, 2013 at 8:26 PM, Dave Miller <ve7pke@...> wrote:
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>>>> www.stm32-sdr.com
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>>>> Drop by and get more details.
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>>>> If you have interest make sure you also drop an email to stm32sdr@... to get on the email updates list for more up to date information.
>>>>
>>>> Thanks for you interest.
>>>> Dave Miller
>>>> VE7PKE
>
>

1610. Re: STM32-SDR now has a website.

Yahoo group: UHFSDR
Date: 2013-08-06 18:19:57 UTC
From: kb9gpm
Topic: 1591 Message: 1610

Well you can add me to the list that would interested in some kind of kit.

73
David KB9GPM

--- In UHFSDR@yahoogroups.com, "Marc OLANIE" <Marc.olanie@...> wrote:
>
> Very nice project Dave
>
> Some questions :-) (you know how Hams are)
>
> - do you intend to sell a real "kit"? I mean many Hams around here, and particularly in the UHFSDR or SDR-Widget SDR community, fell absolutely confident soldering QFPN144 IC's. They really don't need pre-chewed home brewing.
> -What is the usable bandwidth ? (192k said the TLV320AIC3204 datasheet but...)
> - did you consider developing a firmware able to deal with AT050TN33? this kind of 5" TFT's are widely used in the Ham community (Pic-A-Star for example), are at the very same price, sometime lower, than the 3" screen you use, and a bit wider for guys like me who have "big fingers" :-/
> - could it be possible to only use the Si570/display unit and "disengage" the signal processing clutch (for people using a better audio processor)
>
> Thnks for your efforts and developpement
> 73'
> Marc f6itu
>
> -----Message d'origine-----
> De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] De la part de Dave Miller
> Envoyé : mardi 6 août 2013 02:26
> À : UHFSDR@yahoogroups.com
> Objet : [UHFSDR] STM32-SDR now has a website.
>
> Please excuse the intrusion. I want to tell you about a project that I and a group from AQRP (Austin TX QRP) have been working on. I am just finishing up my UHDSDR kit and it should play nicely with the UHFSDR.
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> STM32-SDR (SDR Sans PC) the project that replaces the PC when hooked up to a I/Q based RF deck has a website now. This project is a open source software with a hardware board available. The UHFSDR was taken into account when it was designed.
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> Thanks for you interest.
> Dave Miller
> VE7PKE
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> Yahoo! Groups Links
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1611. RE: [UHFSDR] STM32-SDR now has a website.

Yahoo group: UHFSDR
Date: 2013-08-06 19:16:44 UTC
From: MIKE DURKIN
Topic: 1591 Message: 1611

OdroidX will never be useful untill they go mainstream Ubuntu and deal with the lack of usefull code for the Max98090 (ahh-hemm mdrjr)

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: Marc.olanie@...
Date: Tue, 6 Aug 2013 19:52:14 +0200
Subject: RE: [UHFSDR] STM32-SDR now has a website.

Hi Dave>Low power and small footprint were several of our design goals.That’s definitely a killer argument. One could argue about the difference between a software define radio and a “firmware” defined radio (limited by definition by the size of the processor), but for field days and people looking for a “one box rig”, SDR2GO and it’s evolution is the only elegant way.
>I still stand by as a transceiver you will have much better results if you dont use USB to move audio back and forth and divorce yourself from an OS. That’s sounds logical. But no OS means no way to deal with a multitude of modulation schemes too. In another way, we are seeing more and more small footprint CPU board (Odroid X2 and other “über-raspberry” mobo). The difference between a rig with a mobo with a portable/embedded OS and software and a full featured firmware-base tranceiver is less important in terms of performance but non in terms of functionality. Working with SDR is a tradeoff. You’ll ever have to choose between flexibility, funtioality and portability. Every ham dreams of a small portable SDR with all the possible modulation/demodulation possibilities and the widest bandwidth displayed on the screen :-D .
>Time will prove me right or wrong. ;-) I’m pretty sure you’re right. The STM32 is a “keep it simple” solution (and universal if you’re able to deal with “by 2” and “ by 4” clock ratio, as advertised). Hop you’ll quickly add NBFM . I’ve a UHFSDR waiting for it :-D73’++Marc f6itu

1612. RE: [UHFSDR] STM32-SDR now has a website.

Yahoo group: UHFSDR
Date: 2013-08-06 19:19:42 UTC
From: MIKE DURKIN
Topic: 1591 Message: 1612

I think your right Dave .... until USB3 is supported fully in windows ... embedded systems and Ubuntu are in the forfront workability for SDR software.

Mike KC7NOA
To: UHFSDR@yahoogroups.com
From: ve7pke@...
Date: Tue, 6 Aug 2013 09:58:13 -0700
Subject: Re: [UHFSDR] STM32-SDR now has a website.

No offense taken, I enjoy good discussion.
I will look at adding your questions to the FAQ.
I don't think anyone has claimed the codec chosen was the best one out there. Once the dust settles and there is someone willing to support the software side I will gladly consider another board or two. I had another codec picked but existing software support end experience dictates this one.

Looking at the SDR-Widget there are pluses and minus. I see the ADC is single stereo channel. So we would need two, Did not check the DAC, I suspect we would need two. more parts, bigger board more cost.

Low power and small footprint were several of our design goals.

I still stand by as a transceiver you will have much better results if you dont use USB to move audio back and forth and divorce yourself from an OS.
Time will prove me right or wrong. ;-)

Dave

On Tue, Aug 6, 2013 at 8:48 AM, Marc OLANIE <Marc.olanie@decision.fr> wrote:

Hi DaveA big thank you for this detailed answer. Be sure that I fully understand your motivations, constraints and goals, and I hope you didn’t take my question for a “negative criticism”. All of them where really “candid interrogations”. You definitely made a wonderful project.
You’re right. Kitting such a project is a really heavy job. A simple bare pcb will be fare enough for people with abnormal demand/needs/brain.
… and your answer could be definitely added to the FAQ section of your website, to avoid other stupid questions like mine.
Tnks again for your precisions73’
Marc
PS : “better audio processor” here is a couple of SDR-Widget and an Asus sound card that gives very surprising good results. But I was only considering the performance of the board, not the “look Ma, no computer” aspect of your project

1613. Re: [UHFSDR] STM32-SDR now has a website.

Yahoo group: UHFSDR
Date: 2013-08-06 19:49:05 UTC
From: Sid Boyce
Topic: 1591 Message: 1613

Not necessarily needing mainstream Ubuntu, the real problem is the max98090 problems are not being addressed and I see no direction to their kernel development since they fixed the mali400 driver.

mdrjr's last statement to my request was that the mainline kernel's max98090 support doesn't support HDMI audio.

Having HDMI audio support is as useless as a three speed dish cloth, in cases where it works, you get extremely tinny audio and worse still with some SDR software, e.g quisk, you get pulsating audio from the speakers accompanied by extremely loud pulsating white noise from the HDMI.

Substituting a USB sound card, it's fine.

The ODROID max98090 support does not lend itself to be useful for I-Q either.
73 ... Sid.

On 06/08/13 20:16, MIKE DURKIN wrote:
>
> OdroidX will never be useful untill they go mainstream Ubuntu and deal
> with the lack of usefull code for the Max98090 (ahh-hemm mdrjr)
>
> Mike KC7NOA
>
> ---
> To: UHFSDR@yahoogroups.com
> From: Marc.olanie@...
> Date: Tue, 6 Aug 2013 19:52:14 +0200
> Subject: RE: [UHFSDR] STM32-SDR now has a website.
>
>
> *Hi Dave*
>
> *>*Low power and small footprint were several of our design goals.
>
> That's definitely a killer argument. One could argue about the
> difference between a software define radio and a "firmware" defined
> radio (limited by definition by the size of the processor), but for
> field days and people looking for a "one box rig", SDR2GO and it's
> evolution is the only elegant way.
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>
> >I still stand by as a transceiver you will have much better results if
> you dont use USB to move audio back and forth and divorce yourself
> from an OS.

>
> That's sounds logical. But no OS means no way to deal with a multitude
> of modulation schemes too. In another way, we are seeing more and more
> small footprint CPU board (Odroid X2 and other "?ber-raspberry" mobo).
> The difference between a rig with a mobo with a portable/embedded OS
> and software and a full featured firmware-base tranceiver is less
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> Working with SDR is a tradeoff. You'll ever have to choose between
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> modulation/demodulation possibilities and the widest bandwidth
> displayed on the screen :-D .
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> >Time will prove me right or wrong. ;-)
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> I'm pretty sure you're right. The STM32 is a "keep it simple" solution
> (and universal if you're able to deal with "by 2" and " by 4" clock
> ratio, as advertised). Hop you'll quickly add NBFM . I've a UHFSDR
> waiting for it :-D
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> 73'++
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> Marc f6itu
>
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>

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Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1614. Re: STM32-SDR now has a website.

Yahoo group: UHFSDR
Date: 2013-08-06 20:23:21 UTC
From: Dave Miller
Topic: 1591 Message: 1614

Marc,
It supports the x2 x4 already. I will try to get my UHFSDR up and running this week and post a video. Only need a couple of hours to finish it. I believe one of the other people on the team as a UHFSDR hooked up. I am only claiming something after I have done it myself.

NBFM is high on my list to do. Getting boards in others hands and writing documentation is keeping me off the streets right now ;-)

Thanks for interest.
Dave

--- In UHFSDR@yahoogroups.com, "Marc OLANIE" <Marc.olanie@...> wrote:
>
> Hi Dave
>
> >Low power and small footprint were several of our design goals.
>
> That's definitely a killer argument. One could argue about the difference between a software define radio and a "firmware" defined radio (limited by definition by the size of the processor), but for field days and people looking for a "one box rig", SDR2GO and it's evolution is the only elegant way.
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> >I still stand by as a transceiver you will have much better results if you dont use USB to move audio back and forth and divorce yourself from an OS.
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> That's sounds logical. But no OS means no way to deal with a multitude of modulation schemes too. In another way, we are seeing more and more small footprint CPU board (Odroid X2 and other "über-raspberry" mobo). The difference between a rig with a mobo with a portable/embedded OS and software and a full featured firmware-base tranceiver is less important in terms of performance but non in terms of functionality. Working with SDR is a tradeoff. You'll ever have to choose between flexibility, funtioality and portability.
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> Every ham dreams of a small portable SDR with all the possible modulation/demodulation possibilities and the widest bandwidth displayed on the screen :-D .
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> >Time will prove me right or wrong. ;-)
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> I'm pretty sure you're right. The STM32 is a "keep it simple" solution (and universal if you're able to deal with "by 2" and " by 4" clock ratio, as advertised). Hop you'll quickly

add NBFM . I've a UHFSDR waiting for it :-D
>
> 73'++
>
> Marc f6itu
>

1615. Re: [UHFSDR] Re: STM32-SDR now has a website.

Yahoo group: UHFSDR
Date: 2013-08-06 20:54:43 UTC
From: Jacinto Rebelo
Topic: 1591 Message: 1615

Hi, great news Dave, I have two UHFSDR board's one of them is connect to SDR2GO
which by the way works very well but only have SSB/CW, so the NBFM it is welcome.

waiting for your new video :) ...

73's

Jacinto
cu2ed

On 6 August 2013 20:23, Dave Miller <ve7pke@...> wrote:

> **
>
>
> Marc,
> It supports the x2 x4 already. I will try to get my UHFSDR up and running
> this week and post a video. Only need a couple of hours to finish it. I
> believe one of the other people on the team as a UHFSDR hooked up. I am
> only claiming something after I have done it myself.
>
> NBFM is high on my list to do. Getting boards in others hands and writing
> documentation is keeping me off the streets right now ;-)
>
> Thanks for interest.
> Dave
>
>
> --- In UHFSDR@yahoogroups.com, "Marc OLANIE" <Marc.olanie@...> wrote:
> >
> > Hi Dave
> >
> > >Low power and small footprint were several of our design goals.
> >
> > That's definitely a killer argument. One could argue about the
> difference between a software define radio and a "firmware" defined radio
> (limited by definition by the size of the processor), but for field days
> and people looking for a "one box rig", SDR2GO and it's evolution is the
> only elegant way.
> >
> >
> > >I still stand by as a transceiver you will have much better results if
> you dont use USB to move audio back and forth and divorce yourself from an
> OS.

> >
> > That's sounds logical. But no OS means no way to deal with a multitude
> of modulation schemes too. In another way, we are seeing more and more
> small footprint CPU board (Odroid X2 and other "über-raspberry" mobo). The
> difference between a rig with a mobo with a portable/embedded OS and
> software and a full featured firmware-base tranceiver is less important in
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> >
> > Marc f6itu
> >
>
>
>

1616. Current consumption of board

Yahoo group: UHFSDR
Date: 2013-08-07 00:34:48 UTC
From: Dave Miller
Topic: 1616 Message: 1616

At Step 195, The testing with the AS169 installed what should the current consumption at 12V be?

Thanks
Dave

1617. Steps 199 and 200 in Assembly manual or a revisit of the U2 / U7 questions

Yahoo group: UHFSDR
Date: 2013-08-07 23:39:17 UTC
From: Dave Miller
Topic: 1617 Message: 1617

i am stuck at Step 199. I have read the discussions but not seeing a clear answer.

I have AS169, I know that because I put new ones in and they are marked S169.

I am getting in Step 199 U7-6 as 5V Step 200 0V
Step 203 no continuity. Step 204 continuity.
I have H5 jumpers 2-3.
This seems to be conflicting with the directions.

If this correct and should I move on or is there an problem?

I saw in one message a comment that there are error in the assembly manual. But not details.

Any help is appreciated.
I am expecting I should just continue.
Thanks
Dave
VE7PKE

1618. Re: [UHFSDR] Steps 199 and 200 in Assembly manual or a revisit of the U2 / U7 questions

Yahoo group: UHFSDR
Date: 2013-08-08 00:27:08 UTC
From: Dave
Topic: 1617 Message: 1618

Dave:
I would continue on. There was an error, but don't remember exactly
where or if I changed the manual.

Dave - WB6DHW
<http://wb6dhw.com>

On 8/7/2013 4:39 PM, Dave Miller wrote:
>
> i am stuck at Step 199. I have read the discussions but not seeing a
> clear answer.
>
> I have AS169, I know that because I put new ones in and they are
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> I am expecting I should just continue.
> Thanks
> Dave
> VE7PKE
>
>
>
>

1619. Re: [UHFSDR] Steps 199 and 200 in Assembly manual or a revisit of the U2 / U7 questions

Yahoo group: UHFSDR
Date: 2013-08-08 00:41:35 UTC
From: Dave Miller
Topic: 1617 Message: 1619

Thanks Dave,
I will continue on. And update eventually on manual would be fantastic.

I am lazy so I won't bother to figure it out from first principles. I would rather spend time putting it together. And getting it hooked up to STM32-SDR. ;-)

Thanks
Dave
VE7PKE

Sent from my iPhone

On 2013-08-07, at 17:27, Dave <dave@...> wrote:

> Dave:
> I would continue on. There was an error, but don't remember exactly where or if I changed the manual.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 8/7/2013 4:39 PM, Dave Miller wrote:
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>> Any help is appreciated.
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>> Thanks
>> Dave
>> VE7PKE
>
>

1620. Re: [UHFSDR] Steps 199 and 200 in Assembly manual or a revisit of the U2 / U7 questions

Yahoo group: UHFSDR
Date: 2013-08-08 01:12:30 UTC
From: Sid Boyce
Topic: 1617 Message: 1620

If the circuit is using the AS169 instead of HMC544 for U7 the logic driving it is the same.

With H5 2->3 and grounding P2-1
U6A pin 3 puts a Low on U7-4 and U6B puts a High on U7-6 so that looks perfectly OK and logical.

I never checked the continuity.

There has been a lot of confusion around this part of the circuit, some have said it's OK by leaving off H5 jumpers.

My tale of woe lasted around 8 months and 2 kits.
I was shipped AS157's with an early kit from Art and also with a second kit from Alan (no doubt stock from Art's handover).
I kept replacing AS157's only to discover eventually that the datasheet and the Assembly Manual which suggests it's the same as the AS169 is totally wrong.

I ordered some AS169's and AS157's. When around 3 or 4 AS157's failed to work as expected I installed the AS169's and everything worked on both UHFSDR's.

The circuit diagram could do with a change for the AS169 - A is pin 4, B is pin 6, RF1 is pin 1 and RF 2 is pin 3 and H5 jumpering takes care of the differences.
73 ... Sid.

On 08/08/13 00:39, Dave Miller wrote:
>
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> manual. But not details.

>
> Any help is appreciated.
> I am expecting I should just continue.
> Thanks
> Dave
> VE7PKE
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1621. RE: [UHFSDR] Steps 199 and 200 in Assembly manual or a revisit of the U2 / U7 questions

Yahoo group: UHFSDR
Date: 2013-08-08 04:37:08 UTC
From: The Silver Fox
Topic: 1617 Message: 1621

As far as I can recall, I have shipped AS169s with the majority of the kits.
I could check the records but I am doubtful that I shipped any with AS157s.

73,

Alan - W6ARH

Mobokits http://mobokits.stormwarning.org/

UHFSDR Full Kit http://wb6dhw.com/For_Sale.html $210 USD US and $215 DX
Paypal money to my email adddress

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
Sid Boyce
Sent: Wednesday, August 07, 2013 6:12 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Steps 199 and 200 in Assembly manual or a revisit of
the U2 / U7 questions

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pin 6, RF1 is pin 1 and RF 2 is pin 3 and H5 jumpering takes care of the
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73 ... Sid.

On 08/08/13 00:39, Dave Miller wrote:

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Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
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Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1622. Re: [UHFSDR] Steps 199 and 200 in Assembly manual or a revisit of the U2 / U7 questions

Yahoo group: UHFSDR
Date: 2013-08-08 16:39:13 UTC
From: Sid Boyce
Topic: 1617 Message: 1622

I can check back in my mail but as I remember you got some stock from Art - definitely the first order from ART came with AS157's, the one from your good self also had AS157's.

They were labelled as AS157's and both UHFSDR's caused me many months of grief. Strapping H5 one way, they would only work in RX, the other way only in TX.

I had no AS169's at all before I ordered some and installing them made both UHFSDR's work in RX and TX.
73 ... Sid.

On 08/08/13 05:37, The Silver Fox wrote:
>
> As far as I can recall, I have shipped AS169s with the majority of the
> kits. I could check the records but I am doubtful that I shipped any
> with AS157s.
>
> 73,
>
> Alan -- W6ARH
>
> Mobokits http://mobokits.stormwarning.org/
>
> UHFSDR Full Kit http://wb6dhw.com/For_Sale.html $210 USD US and $215
> DX Paypal money to my email adddress
>
> *From:*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] *On
> Behalf Of *Sid Boyce
> *Sent:* Wednesday, August 07, 2013 6:12 PM
> *To:* UHFSDR@yahoogroups.com
> *Subject:* Re: [UHFSDR] Steps 199 and 200 in Assembly manual or a
> revisit of the U2 / U7 questions
>
> If the circuit is using the AS169 instead of HMC544 for U7 the logic
> driving it is the same.
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> Thanks
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> VE7PKE
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Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support

Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1623. Help! si570 programming problem??

Yahoo group: UHFSDR
Date: 2013-08-31 23:19:49 UTC
From: Ronald Wagner
Topic: 1623 Message: 1623

Hi all,

I'm having some problem with the output of the si570. It seems that programming the device for below about 5MHz works fine. But setting it for higher frequencies doesn't quite work, unless I do a power cycle on the 12V supply. Yet CFGSR shows the right frequency every time.

If I look at the output (TP8 or TP9), low frequency settings (say 2.5MHz) show a rough square wave (some ringing). Setting it to say 10MHz the signal at the test points look more like rough sine waves at 2-3 times the appropriate frequency. But if I turn off the 12V supply (leaving the USB connected) and then turn it back on, that sine wave becomes a square wave and at the correct frequency.

I'm using a USB2I2C to connect the computer USB to the UHFSDR. (http://www.wb5rvz.com/sdr/usb_i2c/index.htm) One thing concerns me about this and it's the Vdd connection on the UHFSDR board. For H1-pin1, I tied this to the Vcc of the UHFSDR, which is the +5 coming from the USB. I connected this to the "red dot" side of R5 (see schematic on idex page above). Maybe I should have gone to the other side of R5 (i.e. CW KEY_1)??

I also think the 7805 on the UHFSDR gets warmer than I would expect. I put a heat sink on it and it's still hot.

Summary:

- CFGSR always reports correct frequency

- frequencies < 5MHz-ish seem to work OK

- frequencies above 5MHz require a 12V power cycle to kick start the si570

Any thoughts on how to resolve this?

Ron

1624. Re: [UHFSDR] Help! si570 programming problem??

Yahoo group: UHFSDR
Date: 2013-08-31 23:31:09 UTC
From: Dave
Topic: 1623 Message: 1624

Ronald:
H1 pin 1 should NOT be tied to the VCC of the UHFSDR. It should only be tied to the 5V from the USB2I2C. H1 pin 2 should be tied to the ground on the USB2I2C.
The 7805 does run very warm, especially with 12V applied. The ADuM1251 isolates the USB power from the UHFSDR power and ground. It will also convert voltages of the I2C(in this case from 5V to 3.3V).

Dave - WB6DHW
<http://wb6dhw.com>

On 8/31/2013 4:19 PM, Ronald Wagner wrote:
>
> Hi all,
>
> I'm having some problem with the output of the si570. It seems that
> programming the device for below about 5MHz works fine. But setting
> it for higher frequencies doesn't quite work, unless I do a power
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>
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> 2.5MHz) show a rough square wave (some ringing). Setting it to say
> 10MHz the signal at the test points look more like rough sine waves at
> 2-3 times the appropriate frequency. But if I turn off the 12V supply
> (leaving the USB connected) and then turn it back on, that sine wave
> becomes a square wave and at the correct frequency.
>
> I'm using a USB2I2C to connect the computer USB to the UHFSDR.
> (http://www.wb5rvz.com/sdr/usb_i2c/index.htm) One thing concerns me
> about this and it's the Vdd connection on the UHFSDR board. For
> H1-pin1, I tied this to the Vcc of the UHFSDR, which is the +5 coming
> from the USB. I connected this to the "red dot" side of R5 (see
> schematic on idex page above). Maybe I should have gone to the other
> side of R5 (i.e. CW KEY_1)??
>
> I also think the 7805 on the UHFSDR gets warmer than I would expect.
> I put a heat sink on it and it's still hot.
>
> Summary:
>
> -CFGSR always reports correct frequency
>
> -frequencies < 5MHz-ish seem to work OK
>
> -frequencies above 5MHz require a 12V power cycle to kick start the si570

>
> Any thoughts on how to resolve this?
>
> Ron
>
>

1625. RE: [UHFSDR] Help! si570 programming problem??

Yahoo group: UHFSDR
Date: 2013-09-01 00:10:10 UTC
From: Ronald Wagner
Topic: 1623 Message: 1625

Sorry Dave, that was a typo on my part. I have H1-1 connected to Vcc of the USB2I2C, which is the 5V from the USB. And H1-2 is connected to ground on the USBI2C, as you say. So my USB2I2C connections to the UHFSDR are OK.

Any guesses on what my problem might be?

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Dave
Sent: Saturday, August 31, 2013 4:31 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Help! si570 programming problem??

Ronald:
H1 pin 1 should NOT be tied to the VCC of the UHFSDR. It should only be tied to the 5V from the USB2I2C. H1 pin 2 should be tied to the ground on the USB2I2C.
The 7805 does run very warm, especially with 12V applied. The ADuM1251 isolates the USB power from the UHFSDR power and ground. It will also convert voltages of the I2C(in this case from 5V to 3.3V).

Dave - WB6DHW
<http://wb6dhw.com> <http://wb6dhw.com>

On 8/31/2013 4:19 PM, Ronald Wagner wrote:

Hi all,

I'm having some problem with the output of the si570. It seems that programming the device for below about 5MHz works fine. But setting it for higher frequencies doesn't quite work, unless I do a power cycle on the 12V supply. Yet CFGSR shows the right frequency every time.

If I look at the output (TP8 or TP9), low frequency settings (say 2.5MHz) show a rough square wave (some ringing). Setting it to say 10MHz the signal at the test points look more like rough sine waves at 2-3 times the appropriate frequency. But if I turn off the 12V supply (leaving the USB connected) and then turn it back on, that sine wave becomes a square wave and at the correct frequency.

I'm using a USB2I2C to connect the computer USB to the UHFSDR. (http://www.wb5rvz.com/sdr/usb_i2c/index.htm) One thing concerns me about this and it's the Vdd connection on the UHFSDR board. For H1-pin1, I tied this to the Vcc of the UHFSDR, which is the +5 coming from the USB. I connected this to the "red dot" side of R5 (see schematic on idex page above). Maybe I should have gone to the other side of R5 (i.e. CW KEY_1)??

I also think the 7805 on the UHFSDR gets warmer than I would expect. I put a heat sink on it and it's still hot.

Summary:

- CFGSR always reports correct frequency

- frequencies < 5MHz-ish seem to work OK

- frequencies above 5MHz require a 12V power cycle to kick start the si570

Any thoughts on how to resolve this?

Ron

1626. Hi every one

Yahoo group: UHFSDR
Date: 2013-09-01 09:59:22 UTC
From: Sergio Lopez Llorens
Topic: 1626 Message: 1626

I'm new to the group and now building uhfsdr.
I want to use it first for vhf uhf sats then I wonder if there is some aplifier for 50 mW in and some watts out (around 50 watts will be enought)
What about the filters? I'm thinkin in use a v/uhf diplexer...

Your experiences are wellcome... How do you usually work sats with uhfsdr?

Thanks a lot.

1627. Re: [UHFSDR] Hi every one

Yahoo group: UHFSDR
Date: 2013-09-01 10:45:53 UTC
From: Sid Boyce
Topic: 1626 Message: 1627

Hi Sergio,
I tried using a 10W HF PA from an old rig that required 1mW input.
I fed it through an attenuator box but it went into oscillation and TX died.
I replaced the HMC482 but still no output and I haven't got around to
looking at it again.

The hope was to use it to drive the 1mW in, 1W out driver I got from
www.funkamateur.de -- document only in Deutsch but key points not
difficult to figure, main ones FT23-43 10 turns bifilar and bias settings.

Ben (NO5K) on the AQRP group posted some tips on his UHFSDR2GO which he
used in a VHF/UHF contest but there was no mention of filters,
amplifiers, etc.

I have only used mine with the SDR-Widget and HF RX/TX BPF's.
73 ... Sid.

On 01/09/13 10:59, Sergio Lopez Llorens wrote:
> I'm new to the group and now building uhfsdr.
> I want to use it first for vhf uhf sats then I wonder if there is some
> aplifier for 50 mW in and some watts out (around 50 watts will be enought)
> What about the filters? I'm thinkin in use a v/uhf diplexer...
> Your experiences are wellcome... How do you usually work sats with uhfsdr?
> Thanks a lot.
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1628. Re: [UHFSDR] Hi every one

Yahoo group: UHFSDR
Date: 2013-09-01 11:13:35 UTC
From: Kostas Ioannidis
Topic: 1626 Message: 1628

Hi!
As far as the PA is concerned the easiest way to get 50W at V/U is to use
the ra60h1317m and ra60h4047m1 Mitsubishi modules.

73 de SV1IXP

On Sun, Sep 1, 2013 at 1:45 PM, Sid Boyce <sboyce@...> wrote:

> **
>
>
> Hi Sergio,
> I tried using a 10W HF PA from an old rig that required 1mW input.
> I fed it through an attenuator box but it went into oscillation and TX
> died.
> I replaced the HMC482 but still no output and I haven't got around to
> looking at it again.
>
> The hope was to use it to drive the 1mW in, 1W out driver I got from
> www.funkamateur.de -- document only in Deutsch but key points not
> difficult to figure, main ones FT23-43 10 turns bifilar and bias settings.
>
> Ben (NO5K) on the AQRP group posted some tips on his UHFSDR2GO which he
> used in a VHF/UHF contest but there was no mention of filters, amplifiers,
> etc.
>
> I have only used mine with the SDR-Widget and HF RX/TX BPF's.
> 73 ... Sid.
>
>
>
> On 01/09/13 10:59, Sergio Lopez Llorens wrote:
>
>
> I'm new to the group and now building uhfsdr.
> I want to use it first for vhf uhf sats then I wonder if there is some
> aplifier for 50 mW in and some watts out (around 50 watts will be enought)
> What about the filters? I'm thinkin in use a v/uhf diplexer...
>
> Your experiences are wellcome... How do you usually work sats with uhfsdr?
>
> Thanks a lot.
>
>
>
> --

> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
> Senior Staff Specialist, Cricket Coach
> Microsoft Windows Free Zone - Linux used for all Computing Tasks
>
>
>

1629. RE: Hi every one

Yahoo group: UHFSDR
Date: 2013-09-01 13:51:57 UTC
From: <tabbey01@...>
Topic: 1626 Message: 1629

Hi Sergio

I am using my UHFSDR for the full legal power in the UK on 70MHz (150W). For the driver I use a home-brew PA RD30HVF1 Mosfet with 12V supply which is capable of 15W o/p but needs a bit more drive for that than the UHFSDR can provide, so its very conservatively rated and is probably running at about 5 W. This then feeds a MRF151 PA bought from an eBay store - (fmbroadcasters) which runs from 50V and produces 150W on 4m into one of his high power band pass filter/SWR shutdown circuits. I mounted the PA and filter on a massive heatsink with an N type connector at the o/p. Its fed by a 48V 7A switch mode power supply I bought faulty on eBay and repaired.
I have brought the 8V tx switched power out of the UHFSDR to feed an antenna changeover relay and bias for the PA and driver. I am working my way up the 4 meter contest listings with this set up.
Hope this helps to show what you can do with the UHFSDR.
73s
Tony

--- In uhfsdr@yahoogroups.com, <kostas.ioannidis@...> wrote:

Hi!
As far as the PA is concerned the easiest way to get 50W at V/U is to use the ra60h1317m and ra60h4047m1 Mitsubishi modules.

73 de SV1IXP

On Sun, Sep 1, 2013 at 1:45 PM, Sid Boyce <sboyce@...> wrote:

Hi Sergio,
I tried using a 10W HF PA from an old rig that required 1mW input.
I fed it through an attenuator box but it went into oscillation and TX died.
I replaced the HMC482 but still no output and I haven't got around to looking at it again.

The hope was to use it to drive the 1mW in, 1W out driver I got from www.funkamateur.de (http://www.funkamateur.de) -- document only in Deutsch but key points not difficult to figure, main ones FT23-43 10 turns bifilar and bias settings.

Ben (NO5K) on the AQRP group posted some tips on his UHFSDR2GO which he used in a VHF/UHF contest but there was no mention of filters, amplifiers, etc.

I have only used mine with the SDR-Widget and HF RX/TX BPF's.
73 ... Sid.

On 01/09/13 10:59, Sergio Lopez Llorens wrote:

I'm new to the group and now building uhfsdr.

I want to use it first for vhf uhf sats then I wonder if there is some aplifier for 50 mW in and some watts out (around 50 watts will be enought)

What about the filters? I'm thinkin in use a v/uhf diplexer...

Your experiences are wellcome... How do you usually work sats with uhfsdr?

Thanks a lot.

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1630. RE: [UHFSDR] Hi every one

Yahoo group: UHFSDR
Date: 2013-09-01 22:16:23 UTC
From: MIKE DURKIN
Topic: 1626 Message: 1630

I would like to see a paper on what Ben (NO5K) did ....

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: sboyce@...
Date: Sun, 1 Sep 2013 11:45:53 +0100
Subject: Re: [UHFSDR] Hi every one

Hi Sergio,

I tried using a 10W HF PA from an old rig that required 1mW input.

I fed it through an attenuator box but it went into oscillation
and TX died.

I replaced the HMC482 but still no output and I haven't got around
to looking at it again.

The hope was to use it to drive the 1mW in, 1W out driver I got
from www.funkamateur.de -- document only in Deutsch but key points
not difficult to figure, main ones FT23-43 10 turns bifilar and
bias settings.

Ben (NO5K) on the AQRP group posted some tips on his UHFSDR2GO
which he used in a VHF/UHF contest but there was no mention of
filters, amplifiers, etc.

I have only used mine with the SDR-Widget and HF RX/TX BPF's.

73 ... Sid.

On 01/09/13 10:59, Sergio Lopez Llorens wrote:

I'm new to the group and now building uhfsdr.
I want to use it first for vhf uhf sats then I wonder
if there is some aplifier for 50 mW in and some watts
out (around 50 watts will be enought)
What about the filters? I'm thinkin in use a v/uhf
diplexer...

Your experiences are wellcome... How do you usually
work sats with uhfsdr?

Thanks a lot.

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support

Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1631. FW: UHF SDR

Yahoo group: UHFSDR
Date: 2013-09-08 03:51:51 UTC
From: The Silver Fox
Topic: 1631 Message: 1631

Anyone interested in building one or more UHFSDR kits for a couple of buyers?

73,

Alan - W6ARH

Mobokits http://mobokits.stormwarning.org/

UHFSDR Full Kit http://wb6dhw.com/For_Sale.html $210 USD US and $215 DX
Paypal money to my email adddress

From: Priyasloka Arya [mailto:priyasloka.arya@...]
Sent: Saturday, September 07, 2013 8:30 PM
To: The Silver Fox
Subject: Re: UHF SDR

Hi

Thanks for the input. I am going to USA next month, i would request in UHFSDR group, if someome is volunteer to make a complete unit.

Regards

Priyasloka Arya

On Wed, Sep 4, 2013 at 4:01 AM, The Silver Fox <alan.r.hill@...> wrote:

Hi,

The process to facilitate the build has not worked out much to our dismay. I would suggest asking the UHFSDR group if there are volunteers out there that would build it for not too great a cost. The kit is not difficult to build.

73,

Alan - W6ARH

From: Priyasloka Arya [mailto:priyasloka.arya@...]
Sent: Sunday, September 01, 2013 3:56 AM
To: The Silver Fox
Subject: Re: UHF SDR

Hi Alan

How are you doing?

Is it possible to one ful assembled unit for me to India. Unfortunately i am poor in soldering. A kit may not be suitable for me.

Thanks

Priyasloka Arya

On Thu, Apr 25, 2013 at 9:08 PM, Priyasloka Arya <priyasloka.arya@...> wrote:

Hi Alan
Greetings.
Do you think you have bandwidth for a built txrx for me in month of May.regards
Priyasloka

On Apr 4, 2013 9:54 PM, "Priyasloka Arya" <priyasloka.arya@...> wrote:

Hi Alan

Thanks for your reply.

I would contact you by 1st week of May and in case you are able to fill the back order before four weeks you could buzz me.

Thanks

Priyasloka Arya

On Thu, Apr 4, 2013 at 9:46 PM, Alan Hill <alan.r.hill@...> wrote:

The price for the kit is $215 USD and I have indeed kept the price as low as possible for the Ham community and secondly one has to invest their own time building and testing it.

I do it as a hobby and benefit to the public. Thanks for your interest. By the way, I can only do this with people buying the kits because the cost of inventory is prohibitive.
73,

Alan - W6ARH

On Thu, Apr 4, 2013 at 8:46 AM, Priyasloka Arya <priyasloka.arya@...> wrote:

:-(:-(i will wait. what is the cost of comeplete Kit. I want to promote this Kit in India to all our HAM community, after long search i find your kit as

real wide range TRX. I am not sure of the complete assembled product price but i find you have priced the kit very honestly compared to what is available

On Thu, Apr 4, 2013 at 9:08 PM, Alan Hill <alan.r.hill@...> wrote:

The full kit of parts is available but there is a four week backlog in orders to be filled.
73,

Alan - W6ARH

On Wed, Apr 3, 2013 at 11:00 PM, Priyasloka Arya <priyasloka.arya@...> wrote:

Good,please keep me in top list of your prduct aspirants.but does the diy kit available now? Regards priyasloka

On Apr 4, 2013 11:10 AM, "The Silver Fox" <alan.r.hill@...> wrote:

We are working on making them available and are evaluating a prototype of the assembled and tested board. It will likely be a few more weeks before we can announce the availability and price.

73,

Alan - W6ARH

From: Priyasloka Arya [mailto:priyasloka.arya@...]
Sent: Wednesday, April 03, 2013 8:16 PM
To: alan.r.hill@...
Subject: UHF SDR

Hi Alan

This is Priyasloka. I am very much impressed with your UHF SDR.

Could you help me to get one complete assembled UHFSDR ready to go. I am from India. Please help.

Thanks

Priyasloka Arya

1632. wire antenna?

Yahoo group: UHFSDR
Date: 2013-09-13 03:08:32 UTC
From: Ronald Wagner
Topic: 1632 Message: 1632

So how much damage would I do if I just connected a long length of wire to the antenna of the UHFSDR and tried to transmit? That is, no antenna tuner. Would that fry the output driver?

Ron

1633. RE: [UHFSDR] wire antenna?

Yahoo group: UHFSDR
Date: 2013-09-13 05:55:16 UTC
From: MIKE DURKIN
Topic: 1632 Message: 1633

i doubt it ....

but with out any static electricity protection .. you might kill the first coupling cap and output rx/Tx relay ...

To: UHFSDR@yahoogroups.com
From: rcwagner@...
Date: Thu, 12 Sep 2013 20:08:32 -0700
Subject: [UHFSDR] wire antenna?

So how much damage would I do if I just connected a long length of wire to the antenna of the UHFSDR and tried to transmit? That is, no antenna tuner. Would that fry the output driver? Ron

1634. U9-5 and U9-5 voltages

Yahoo group: UHFSDR
Date: 2013-09-14 23:46:18 UTC
From: <artus1947@...>
Topic: 1634 Message: 1634

I am having a problem getting the 2-3 volts at these pins. UI have a working UHFSDR that I have been comparing voltages as follows

Node:Working Unit : Non-working Unit
Q3 E : 6.35 : 5.85
Q3 B : 6.95 : 7.95
Q3 C : 7.95 : 7.95
Q1E:
Q1B:
Q1C:
Q2E:
Q2B:
Q3C:

1635. RE: U9-5 and U9-5 voltages

Yahoo group: UHFSDR
Date: 2013-09-15 00:00:04 UTC
From: <artus1947@...>
Topic: 1634 Message: 1635

Sorry somehow I posted before I was ready -- don't really know how.

Anyway to continue:

Q3C:Node:Working Unit : Non-working Unit
Q3 E : 6.35 : 5.85
Q3 B : 6.95 : 7.95
Q3 C : 7.95 : 7.95
Q1 E : 2.52 : 1.1
Q1 B : 3.15 : 2.93
Q1 C : 3.86 : 4.37
Q2 E : 2.53 : 1.0
Q2 B : 3.15 : 2.93
Q2 C : 3.87 : 4.37

I tried swapping out Q3 with a mmbt3904 that I had and could get up to about 1.6 volts with R17 at 10K. I have some 4401s on order but not sure I have Identified the issue. Any thoughts? thanks.

73,
Jack

--- In UHFSDR@yahoogroups.com, <uhfsdr@yahoogroups.com> wrote:

I am having a problem getting the 2-3 volts at these pins. UI have a working UHFSDR that I have been comparing voltages as follows

Node:Working Unit : Non-working Unit
Q3 E : 6.35 : 5.85
Q3 B : 6.95 : 7.95
Q3 C : 7.95 : 7.95
Q1E:
Q1B:
Q1C:
Q2E:
Q2B:
Q3C:

1636. Re: [UHFSDR] RE: U9-5 and U9-5 voltages

Yahoo group: UHFSDR
Date: 2013-09-15 00:24:12 UTC
From: Dave
Topic: 1634 Message: 1636

Jack:
Are Q1, Q2, and Q3 installed correctly? The base-emitter drop should be approx .7 volts. No way for it to be much higher if forward biased(it is). Also, 7.95 volts on Q1-C indicates virtually no current flowing.

Dave - WB6DHW
<http://wb6dhw.com>

On 9/14/2013 5:00 PM, artus1947@... wrote:
>
> Sorry somehow I posted before I was ready -- don't really know how.
>
>
> Anyway to continue:
>
>
> Q3C:Node:Working Unit : Non-working Unit
> Q3 E : 6.35 : 5.85
> Q3 B : 6.95 : 7.95
> Q3 C : 7.95 : 7.95
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> Q1 B : 3.15 : 2.93
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> Q2 E : 2.53 : 1.0
> Q2 B : 3.15 : 2.93
> Q2 C : 3.87 : 4.37
>
> I tried swapping out Q3 with a mmbt3904 that I had and could get up to
> about 1.6 volts with R17 at 10K. I have some 4401s on order but not
> sure I have Identified the issue. Any thoughts? thanks.
>
> 73,
> Jack
>
>
> --- In UHFSDR@yahoogroups.com, <uhfsdr@yahoogroups.com> wrote:
>
> I am having a problem getting the 2-3 volts at these pins. UI have a
> working UHFSDR that I have been comparing voltages as follows
>
> Node:Working Unit : Non-working Unit
> Q3 E : 6.35 : 5.85
> Q3 B : 6.95 : 7.95
> Q3 C : 7.95 : 7.95

```
> Q1E:
> Q1B:
> Q1C:
> Q2E:
> Q2B:
> Q3C:
> --
>
>
>
```

1637. RE: Re: [UHFSDR] RE: U9-5 and U9-5 voltages

Yahoo group: UHFSDR
Date: 2013-09-15 02:35:59 UTC
From: <artus1947@...>
Topic: 1634 Message: 1637

Dave,

They look correct-- footprint is correct, looks like my other working unit and the pics in the build guide. I am wondering if I got something other than 4401s. I looked at the packaging from Digi-key and It says mmbt44011lt1g -- the units are marked "mv." I have an order in for more 4401's so I can swap them out next week to see if thats the issue, I use a hot air gun for soldering and have successfully built many smd projects with the technique, but I wonder if I've somehow destroyed these transistors. Thanks for the help -- I'll let you know how the swap works.

73,
Jack

--- In UHFSDR@yahoogroups.com, <uhfsdr@yahoogroups.com> wrote:

Jack:
Are Q1, Q2, and Q3 installed correctly? The base-emitter drop should be approx .7 volts. No way for it to be much higher if forward biased(it is). Also, 7.95 volts on Q1-C indicates virtually no current flowing.

Dave - WB6DHW
<http://wb6dhw.com>

On 9/14/2013 5:00 PM, artus1947@... wrote:

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Anyway to continue:

Q3C:Node:Working Unit : Non-working Unit

Q3 E : 6.35 : 5.85

Q3 B : 6.95 : 7.95

Q3 C : 7.95 : 7.95

Q1 E : 2.52 : 1.1

Q1 B : 3.15 : 2.93

Q1 C : 3.86 : 4.37

Q2 E : 2.53 : 1.0

Q2 B : 3.15 : 2.93

Q2 C : 3.87 : 4.37

I tried swapping out Q3 with a mmbt3904 that I had and could get up to about 1.6 volts with R17 at 10K. I have some 4401s on order but not sure I have Identified the issue. Any thoughts? thanks.

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Jack

--- In UHFSDR@yahoogroups.com, <uhfsdr@yahoogroups.com> wrote:

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Q3 B : 6.95 : 7.95

Q3 C : 7.95 : 7.95

Q1E:

Q1B:

Q1C:

Q2E:

Q2B:

Q3C:

1638. RE: RE: Re: [UHFSDR] RE: U9-5 and U9-5 voltages

Yahoo group: UHFSDR
Date: 2013-09-18 21:14:48 UTC
From: <artus1947@...>
Topic: 1634 Message: 1638

Dave,

Traded out the Q1-4 and Q6 transistors(?) from the original assembly with new ones and those circuits now seem normal. I am not sure what Digikey sent me the first time -- the "mv" markings did not agree with On Semiconductor data sheet -- new transistor markings do agree. I did communicate win Digikey about the issue but haven't heard back. Anyway, I'll finish testing and hope nothing else rears up. I am hoping to use this unit with an STM32SDR when the boards become available. Thanks.

73,
Jack W0FNQ

--- In UHFSDR@yahoogroups.com, <uhfsdr@yahoogroups.com> wrote:

Dave,

They look correct-- footprint is correct, looks like my other working unit and the pics in the build guide. I am wondering if I got something other than 4401s. I looked at the packaging from Digi-key and It says mmbt44011lt1g -- the units are marked "mv." I have an order in for more 4401's so I can swap them out next week to see if thats the issue, I use a hot air gun for soldering and have successfully built many smd projects with the technique, but I wonder if I've somehow destroyed these transistors. Thanks for the help -- I'll let you know how the swap works.

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Jack

--- In UHFSDR@yahoogroups.com, <uhfsdr@yahoogroups.com> wrote:

Jack:
Are Q1, Q2, and Q3 installed correctly? The base-emitter drop should be approx .7 volts. No way for it to be much higher if forward biased(it is). Also, 7.95 volts on Q1-C indicates virtually no current flowing.

Dave - WB6DHW
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On 9/14/2013 5:00 PM, artus1947@... wrote:

Sorry somehow I posted before I was ready -- don't really know how.

Anyway to continue:

Q3C:Node:Working Unit : Non-working Unit

Q3 E : 6.35 : 5.85

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I tried swapping out Q3 with a mmbt3904 that I had and could get up to about 1.6 volts with R17 at 10K. I have some 4401s on order but not sure I have Identified the issue. Any thoughts? thanks.

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Node:Working Unit : Non-working Unit

Q3 E : 6.35 : 5.85

Q3 B : 6.95 : 7.95

Q3 C : 7.95 : 7.95

Q1E:

Q1B:

Q1C:

Q2E:

Q2B:

Q3C:

1639. Re: [UHFSDR] RE: U9-5 and U9-5 voltages

Yahoo group: UHFSDR
Date: 2013-09-19 05:29:15 UTC
From: Dave Miller
Topic: 1634 Message: 1639

Jack,
Thanks for letting me tell you STM32-SDR boards are now for sale on the website. Just brought them online today. Ready to ship. ;-)

Thanks
Dave

Sent from my iPad

On 2013-09-18, at 2:14 PM, <artus1947@...> wrote:

> Dave,
>
>
>
> Traded out the Q1-4 and Q6 transistors(?) from the original assembly with new ones and those circuits now seem normal. I am not sure what Digikey sent me the first time -- the "mv" markings did not agree with On Semiconductor data sheet -- new transistor markings do agree. I did communicate win Digikey about the issue but haven't heard back. Anyway, I'll finish testing and hope nothing else rears up. I am hoping to use this unit with an STM32SDR when the boards become available. Thanks.
>
>
>
> 73,
>
> Jack W0FNQ
>
>
>
>
>
>
>
> --- In UHFSDR@yahoogroups.com, <uhfsdr@yahoogroups.com> wrote:
>
> Dave,
>
>
>
> They look correct-- footprint is correct, looks like my other working unit and the pics in the build guide. I am wondering if I got something other than 4401s. I looked at the packaging from Digi-key and It says mmbt44011lt1g -- the units are marked "mv." I have an order in for more 4401's so I can swap them out next week to see if thats the issue, I use a hot air gun for soldering and have successfully built many smd projects with the technique, but I wonder if I've somehow destroyed these transistors. Thanks for the help --

I'll let you know how the swap works.
>
>
>
> 73,
>
> Jack
>
>
>
> --- In UHFSDR@yahoogroups.com, <uhfsdr@yahoogroups.com> wrote:
>
> Jack:
> Are Q1, Q2, and Q3 installed correctly? The base-emitter drop should be approx .7 volts. No way for it to be much higher if forward biased(it is). Also, 7.95 volts on Q1-C indicates virtually no current flowing.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 9/14/2013 5:00 PM, artus1947@... wrote:
>>
>> Sorry somehow I posted before I was ready -- don't really know how.
>>
>>
>> Anyway to continue:
>>
>>
>> Q3C:Node:Working Unit : Non-working Unit
>> Q3 E : 6.35 : 5.85
>> Q3 B : 6.95 : 7.95
>> Q3 C : 7.95 : 7.95
>> Q1 E : 2.52 : 1.1
>> Q1 B : 3.15 : 2.93
>> Q1 C : 3.86 : 4.37
>> Q2 E : 2.53 : 1.0
>> Q2 B : 3.15 : 2.93
>> Q2 C : 3.87 : 4.37
>>
>> I tried swapping out Q3 with a mmbt3904 that I had and could get up to about 1.6 volts with R17 at 10K. I have some 4401s on order but not sure I have Identified the issue. Any thoughts? thanks.
>>
>> 73,
>> Jack
>>
>>
>> --- In UHFSDR@yahoogroups.com, <uhfsdr@yahoogroups.com> wrote:
>>
>> I am having a problem getting the 2-3 volts at these pins. UI have a working UHFSDR that I have been comparing voltages as follows

```
>>
>> Node:Working Unit : Non-working Unit
>> Q3 E : 6.35 : 5.85
>> Q3 B : 6.95 : 7.95
>> Q3 C : 7.95 : 7.95
>> Q1E:
>> Q1B:
>> Q1C:
>> Q2E:
>> Q2B:
>> Q3C:
>
>
```

1640. RE: [UHFSDR] RE: U9-5 and U9-5 voltages

Yahoo group: UHFSDR
Date: 2013-09-20 02:45:46 UTC
From: MIKE DURKIN
Topic: 1634 Message: 1640

any word .. if there's going to be FM with it? STM32SDR

To: UHFSDR@yahoogroups.com
From: artus1947@...
Date: Wed, 18 Sep 2013 14:14:48 -0700
Subject: RE: RE: Re: [UHFSDR] RE: U9-5 and U9-5 voltages

Dave,

Traded out the Q1-4 and Q6 transistors(?) from the original assembly with new ones and those circuits now seem normal. I am not sure what Digikey sent me the first time -- the "mv" markings did not agree with On Semiconductor data sheet -- new transistor markings do agree. I did communicate win Digikey about the issue but haven't heard back. Anyway, I'll finish testing and hope nothing else rears up. I am hoping to use this unit with an STM32SDR when the boards become available. Thanks.
73,Jack W0FNQ

--- In UHFSDR@yahoogroups.com, <uhfsdr@yahoogroups.com> wrote:

Dave,

They look correct-- footprint is correct, looks like my other working unit and the pics in the build guide. I am wondering if I got something other than 4401s. I looked at the packaging from Digi-key and It says mmbt44011lt1g -- the units are marked "mv." I have an order in for more 4401's so I can swap them out next week to see if thats the issue, I use a hot air gun for soldering and have successfully built many smd projects with the technique, but I wonder if I've somehow destroyed these transistors. Thanks for the help -- I'll let you know how the swap works.
73,Jack

--- In UHFSDR@yahoogroups.com, <uhfsdr@yahoogroups.com> wrote:

Jack:

Are Q1, Q2, and Q3 installed correctly? The base-emitter drop
should be approx .7 volts. No way for it to be much higher if
forward biased(it is). Also, 7.95 volts on Q1-C indicates
virtually no current flowing.

Dave - WB6DHW

<http://wb6dhw.com>

On 9/14/2013 5:00 PM, artus1947@... wrote:

Sorry somehow I posted before I was ready -- don't
really know how.

Anyway
to continue:

Q3C:Node:Working
Unit : Non-working Unit
Q3 E : 6.35 :
5.85
Q3 B : 6.95 :
7.95
Q3 C : 7.95 :
7.95
Q1 E : 2.52 :
1.1
Q1 B : 3.15 :
2.93
Q1 C : 3.86 :
4.37
Q2 E : 2.53 :
1.0
Q2 B : 3.15 :
2.93
Q2 C : 3.87 :
4.37

I tried
swapping out Q3 with a mmbt3904 that I had and could get
up to about 1.6 volts with R17 at 10K. I have some 4401s
on order but not sure I have Identified the issue. Any
thoughts? thanks.

73,
Jack

--- In UHFSDR@yahoogroups.com,
<uhfsdr@yahoogroups.com> wrote:

I am having a problem getting the
2-3 volts at these pins. UI have a working UHFSDR that
I have been comparing voltages as follows

Node:Working Unit : Non-working Unit
Q3 E : 6.35 : 5.85
Q3 B : 6.95 : 7.95
Q3 C : 7.95 : 7.95
Q1E:
Q1B:
Q1C:
Q2E:
Q2B:
Q3C:

1641. Re: [UHFSDR] RE: U9-5 and U9-5 voltages

Yahoo group: UHFSDR
Date: 2013-09-20 02:53:49 UTC
From: Dave Miller
Topic: 1634 Message: 1641

Mike,
Anything is possible. If you think FM is important make sure you post your feature request on the STM32-SDR Yahoo group. If we don't get the request we can't put it on the list. ;-)

Dave
VE7PKE

Sent from my iPhone

On 2013-09-19, at 19:45, MIKE DURKIN <Patriot121@...> wrote:

> any word .. if there's going to be FM with it? STM32SDR
>
> To: UHFSDR@yahoogroups.com
> From: artus1947@...
> Date: Wed, 18 Sep 2013 14:14:48 -0700
> Subject: RE: RE: Re: [UHFSDR] RE: U9-5 and U9-5 voltages
>
>
>
> Dave,
>
>
> Traded out the Q1-4 and Q6 transistors(?) from the original assembly with new ones and those circuits now seem normal. I am not sure what Digikey sent me the first time -- the "mv" markings did not agree with On Semiconductor data sheet -- new transistor markings do agree. I did communicate win Digikey about the issue but haven't heard back. Anyway, I'll finish testing and hope nothing else rears up. I am hoping to use this unit with an STM32SDR when the boards become available. Thanks.
>
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> 73,
>
> Jack W0FNQ
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> --- In UHFSDR@yahoogroups.com, <uhfsdr@yahoogroups.com> wrote:
>
> Dave,
>

>
> They look correct-- footprint is correct, looks like my other working unit and the pics in the build guide. I am wondering if I got something other than 4401s. I looked at the packaging from Digi-key and It says mmbt44011lt1g -- the units are marked "mv." I have an order in for more 4401's so I can swap them out next week to see if thats the issue, I use a hot air gun for soldering and have successfully built many smd projects with the technique, but I wonder if I've somehow destroyed these transistors. Thanks for the help -- I'll let you know how the swap works.
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> 73,
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> Jack
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> --- In UHFSDR@yahoogroups.com, <uhfsdr@yahoogroups.com> wrote:
>
> Jack:
> Are Q1, Q2, and Q3 installed correctly? The base-emitter drop should be approx .7 volts. No way for it to be much higher if forward biased(it is). Also, 7.95 volts on Q1-C indicates virtually no current flowing.
>
> Dave - WB6DHW
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> On 9/14/2013 5:00 PM, artus1947@... wrote:
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> Sorry somehow I posted before I was ready -- don't really know how.
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> Anyway to continue:
>
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> Q3C:Node:Working Unit : Non-working Unit
> Q3 E : 6.35 : 5.85
> Q3 B : 6.95 : 7.95
> Q3 C : 7.95 : 7.95
> Q1 E : 2.52 : 1.1
> Q1 B : 3.15 : 2.93
> Q1 C : 3.86 : 4.37
> Q2 E : 2.53 : 1.0
> Q2 B : 3.15 : 2.93
> Q2 C : 3.87 : 4.37
>
> I tried swapping out Q3 with a mmbt3904 that I had and could get up to about 1.6 volts with R17 at 10K. I have some 4401s on order but not sure I have Identified the issue. Any thoughts? thanks.
>

> 73,
> Jack
>
>
> --- In UHFSDR@yahoogroups.com, <uhfsdr@yahoogroups.com> wrote:
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> I am having a problem getting the 2-3 volts at these pins. UI have a working UHFSDR that I have been comparing voltages as follows
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> Node:Working Unit : Non-working Unit
> Q3 E : 6.35 : 5.85
> Q3 B : 6.95 : 7.95
> Q3 C : 7.95 : 7.95
> Q1E:
> Q1B:
> Q1C:
> Q2E:
> Q2B:
> Q3C:
>
>
>

1642. RE: FW: UHF SDR

Yahoo group: UHFSDR
Date: 2013-09-24 06:30:48 UTC
From: <petorrin@...>
Topic: 1631 Message: 1642

Dear Alan:

I am be very interesed in one assembles UHFSDR ready. Please send me the total prive fr send it to Spain.

73,s de Jabi, ea2aru.

--- In uhfsdr@yahoogroups.com, <alan.r.hill@...> wrote:

Anyone interested in building one or more UHFSDR kits for a couple of buyers?

73,

Alan – W6ARH

Mobokits http://mobokits.stormwarning.org/

UHFSDR Full Kit http://wb6dhw.com/For_Sale.html $210 USD US and $215 DX Paypal money to my email adddress

From: Priyasloka Arya [mailto:priyasloka.arya@...]
Sent: Saturday, September 07, 2013 8:30 PM
To: The Silver Fox
Subject: Re: UHF SDR

Hi

Thanks for the input. I am going to USA next month, i would request in UHFSDR group, if someome is volunteer to make a complete unit.

Regards

Priyasloka Arya

On Wed, Sep 4, 2013 at 4:01 AM, The Silver Fox <alan.r.hill@...> wrote:

Hi,

The process to facilitate the build has not worked out much to our dismay. I would suggest asking the UHFSDR group if there are volunteers out there that would build it for not too great a cost. The kit is not difficult to build.

73,

Alan – W6ARH

From: Priyasloka Arya [mailto:priyasloka.arya@...]
Sent: Sunday, September 01, 2013 3:56 AM
To: The Silver Fox
Subject: Re: UHF SDR

Hi Alan

How are you doing?

Is it possible to one ful assembled unit for me to India. Unfortunately i am poor in soldering. A kit may not be suitable for me.

Thanks

Priyasloka Arya

On Thu, Apr 25, 2013 at 9:08 PM, Priyasloka Arya <priyasloka.arya@...> wrote:

Hi Alan
Greetings.
Do you think you have bandwidth for a built txrx for me in month of May.regards
Priyasloka

On Apr 4, 2013 9:54 PM, "Priyasloka Arya" <priyasloka.arya@...> wrote:

Hi Alan

Thanks for your reply.

I would contact you by 1st week of May and in case you are able to fill the back order before four weeks you could buzz me.

Thanks

Priyasloka Arya

On Thu, Apr 4, 2013 at 9:46 PM, Alan Hill <alan.r.hill@...> wrote:

The price for the kit is $215 USD and I have indeed kept the price as low as possible for the Ham community and secondly one has to invest their own time building and testing it.

I do it as a hobby and benefit to the public. Thanks for your interest. By the way, I can only do this with people buying the kits because the cost of inventory is prohibitive.
73,

Alan - W6ARH

On Thu, Apr 4, 2013 at 8:46 AM, Priyasloka Arya <priyasloka.arya@...> wrote:

:-(:-(i will wait. what is the cost of comeplete Kit. I want to promote this Kit in India to all our HAM community, after long search i find your kit as

real wide range TRX. I am not sure of the complete assembled product price but i find you have priced the kit very honestly compared to what is available

On Thu, Apr 4, 2013 at 9:08 PM, Alan Hill <alan.r.hill@...> wrote:

The full kit of parts is available but there is a four week backlog in orders to be filled.
73,

Alan - W6ARH

On Wed, Apr 3, 2013 at 11:00 PM, Priyasloka Arya <priyasloka.arya@...> wrote:

Good,please keep me in top list of your prduct aspirants.but does the diy kit available now? Regards priyasloka

On Apr 4, 2013 11:10 AM, "The Silver Fox" <alan.r.hill@...> wrote:

We are working on making them available and are evaluating a prototype of the assembled and tested board. It will likely be a few more weeks before we can announce the availability and price.

73,

Alan – W6ARH

From: Priyasloka Arya [mailto:priyasloka.arya@...]
Sent: Wednesday, April 03, 2013 8:16 PM
To: alan.r.hill@...
Subject: UHF SDR

Hi Alan

This is Priyasloka. I am very much impressed with your UHF SDR.

Could you help me to get one complete assembled UHFSDR ready to go. I am from India. Please help.

Thanks

Priyasloka Arya

1643. RE: for sale -- uhfsdr

Yahoo group: UHFSDR
Date: 2013-09-25 07:43:49 UTC
From: <petorrin@...>
Topic: 1590 Message: 1643

Dear Martin:

I am interesed in one assembled and tested unit UHFSDR.

You have one?

What is the price?

I am ready for pay and the transport to Spain.

73,s de Jabi, ea2aru.

---In uhfsdr@yahoogroups.com, <wb4gcs@...> wrote:

Thanks!

On 8/5/2013 10:55 PM, MIKE DURKIN wrote:

the Si570 in this UHFSDR would allow Rx/Tx from 1.78Mhz to around 705Mhz ...

To: UHFSDR@yahoogroups.com
From: wb4gcs@...
Date: Mon, 5 Aug 2013 20:40:13 -0400
Subject: Re: [UHFSDR] for sale -- uhfsdr

Mike:

I'm not familiar with the v arious flavors of Si570 . . . . what is frequency range?

Thanks,
Jim
wb4gcs@...

On 8/4/2013 11:15 PM, MIKE DURKIN wrote:

assembled UHFSDR ... iv used it for more than a year now ....

looking for what ever SilverFox is looking for in a complete kit plus shipping .... has lvds class "A" Si570

1644. UHFSDR Output

Yahoo group: UHFSDR
Date: 2013-10-22 23:12:25 UTC
From: <ve7pke@...>
Topic: 1644 Message: 1644

Looking for some typical numbers from the group on the UHFSDR. I am doing some detailed testing of our project (www.stm32-sdr.com) with it and would like to see if things are looking good.

From what I read 1Vpp I/Q is what is specified.
Typical output at 14.070?
Side band suppression in dB
Thanks
Dave

1645. Announcement: USB2SDR & HPADC on Indiegogo

Yahoo group: UHFSDR
Date: 2013-10-28 08:20:52 UTC
From: <sv1eia@...>
Topic: 1645 Message: 1645

Hi,

It has been quite some time since the previous USB2SDR offering, yet the demand from users is still going on. And that demand and user interest makes me to take this initiative.

Due to local reasons, considering the difficult situation here in Greece, any thoughts on moving on with a new batch of boards were suppressed.

That has changed and the reason for this is the relevant new concept of crowdfunding, that concept can be used here and assist all of us.

So I decided to start a campaign on Indiegogo, one of the most reputable crowdfunding sites.

Thus, any of you want to have a new USB2SDR and/or a HPADC, you can do that via the Indiegogo USB2SDR campaign.

http://www.indiegogo.com/projects/usb2sdr-software-defined-radio-startup
http://www.indiegogo.com/projects/usb2sdr-software-defined-radio-startup

Any support, even a small contribution, does count.
If somebody just wants to acknowledge the effort of a freeware developer, is most certainly welcome and can do that too in the Indiegogo campaign.

Best 73,
Christos SV1EIA

1646. problem above ~20MHz

Yahoo group: UHFSDR
Date: 2013-11-06 05:14:16 UTC
From: Ronald Wagner
Topic: 1646 Message: 1646

I'm intermittently working on my UHFSDR build and have come across an odd problem I'm hoping someone can help me with. So far I'm just working on the receiving end of things, using Rocky to test. I have the whole radio built and installed in an open chassis. The reception seems to work fine below about 20MHz, however at virtually any frequency above that I get a strong local AM station coming in at the center frequency.

I've checked the output frequency of the si570 on a 100MHz scope and it seems to be in the right ballpark. Setting the radio to a succession of increasing frequencies the si570 looks right as far as 50MHz. I didn't go higher as it seemed pointless. I think the si570 is generating the right frequency (2x the frequency selected in Rocky), but as I said, at about 20Mhz and up Rocky is dominated by the local AM station.

Does anyone have any thoughts on what I should look for?

Ron

1647. Re: [UHFSDR] problem above ~20MHz

Yahoo group: UHFSDR
Date: 2013-11-06 05:46:54 UTC
From: w9amr@...
Topic: 1646 Message: 1647

Are you using a BPF between the antenna and the radio? It is a much!

W9AMR

In a message dated 11/6/2013 12:14:21 A.M. Eastern Standard Time, rcwagner@... writes:

I’m intermittently working on my UHFSDR build and have come across an odd problem I’m hoping someone can help me with. So far I’m just working on the receiving end of things, using Rocky to test. I have the whole radio built and installed in an open chassis. The reception seems to work fine below about 20MHz, however at virtually any frequency above that I get a strong local AM station coming in at the center frequency.
I’ve checked the output frequency of the si570 on a 100MHz scope and it seems to be in the right ballpark. Setting the radio to a succession of increasing frequencies the si570 looks right as far as 50MHz. I didn’t go higher as it seemed pointless. I think the si570 is generating the right frequency (2x the frequency selected in Rocky), but as I said, at about 20Mhz and up Rocky is dominated by the local AM station.
Does anyone have any thoughts on what I should look for?
Ron

1648. RE: [UHFSDR] problem above ~20MHz

Yahoo group: UHFSDR
Date: 2013-11-06 06:01:40 UTC
From: MIKE DURKIN
Topic: 1646 Message: 1648

yea .. get a bandpass filter for the front end .... its a mixed hetrodyne ??....

Might be also from the usb sound card ...

Figure out what station it is will also help to track the source down ... iv got KQNT blasting me ... look it up and my call ..... hi hi .. ouch.

if you have a tuner .. that would help eliminate sources ...

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: rcwagner@...
Date: Tue, 5 Nov 2013 21:14:16 -0800
Subject: [UHFSDR] problem above ~20MHz

I’m intermittently working on my UHFSDR build and have come across an odd problem I’m hoping someone can help me with. So far I’m just working on the receiving end of things, using Rocky to test. I have the whole radio built and installed in an open chassis. The reception seems to work fine below about 20MHz, however at virtually any frequency above that I get a strong local AM station coming in at the center frequency. I’ve checked the output frequency of the si570 on a 100MHz scope and it seems to be in the right ballpark. Setting the radio to a succession of increasing frequencies the si570 looks right as far as 50MHz. I didn’t go higher as it seemed pointless. I think the si570 is generating the right frequency (2x the frequency selected in Rocky), but as I said, at about 20Mhz and up Rocky is dominated by the local AM station. Does anyone have any thoughts on what I should look for? Ron

1649. RE: [UHFSDR] problem above ~20MHz

Yahoo group: UHFSDR
Date: 2013-11-06 16:16:15 UTC
From: Ronald Wagner
Topic: 1646 Message: 1649

Thanks Larry and Mike. I'll try sticking in a filter of some sort. For testing I just have a long wire stuck in the antenna jack. I wonder if using a balanced antenna or even a ground connection on the other half the long wire would help.

And I also have KNX 1070 at 50KW within 5 line-of-sight miles. That's the station I hear at the zero frequency. I'm pretty sure I used to pick up that station from my old amalgam fillings.

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of MIKE DURKIN
Sent: Tuesday, November 05, 2013 10:02 PM
To: UHFSDR UHFSDR
Subject: RE: [UHFSDR] problem above ~20MHz

yea .. get a bandpass filter for the front end .... its a mixed hetrodyne ??....

Might be also from the usb sound card ...

Figure out what station it is will also help to track the source down ... iv got KQNT blasting me ... look it up and my call ..... hi hi .. ouch.

if you have a tuner .. that would help eliminate sources ...

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: rcwagner@... <mailto:rcwagner@...>
Date: Tue, 5 Nov 2013 21:14:16 -0800
Subject: [UHFSDR] problem above ~20MHz

I'm intermittently working on my UHFSDR build and have come across an odd problem I'm hoping someone can help me with. So far I'm just working on the receiving end of things, using Rocky to test. I have the whole radio built and installed in an open chassis. The reception seems to work fine below about 20MHz, however at virtually any frequency above that I get a strong local AM station coming in at the center frequency.

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Does anyone have any thoughts on what I should look for?

Ron

1650. RE: [UHFSDR] problem above ~20MHz

Yahoo group: UHFSDR
Date: 2013-11-07 00:59:51 UTC
From: MIKE DURKIN
Topic: 1646 Message: 1650

HA !!!!!

KQNT run 5Kw ... and i posted a video of the station signal on my house ground !!!!
Its not quite line of sight ... but being under a mile away ... it plain sucked with no filter ..

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: rcwagner@...
Date: Wed, 6 Nov 2013 08:16:15 -0800
Subject: RE: [UHFSDR] problem above ~20MHz

Thanks Larry and Mike. I'll try sticking in a filter of some sort. For testing I just have a long wire stuck in the antenna jack. I wonder if using a balanced antenna or even a ground connection on the other half the long wire would help. And I also have KNX 1070 at 50KW within 5 line-of-sight miles. That's the station I hear at the zero frequency. I'm pretty sure I used to pick up that station from my old amalgam fillings. From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of MIKE DURKIN
Sent: Tuesday, November 05, 2013 10:02 PM
To: UHFSDR UHFSDR
Subject: RE: [UHFSDR] problem above ~20MHz yea .. get a bandpass filter for the front end .... its a mixed hetrodyne ??....

Might be also from the usb sound card ...

Figure out what station it is will also help to track the source down ... iv got KQNT blasting me ... look it up and my call ..... hi hi .. ouch.

if you have a tuner .. that would help eliminate sources ...

Mike KC7NOATo: UHFSDR@yahoogroups.com
From: rcwagner@...
Date: Tue, 5 Nov 2013 21:14:16 -0800
Subject: [UHFSDR] problem above ~20MHz

I'm intermittently working on my UHFSDR build and have come across an odd problem I'm hoping someone can help me with. So far I'm just working on the receiving end of things, using Rocky to test. I have the whole radio built and installed in an open chassis. The reception seems to work fine below about 20MHz, however at virtually any frequency above that I get a strong local AM station coming in at the center frequency. I've checked the output frequency of the si570 on a 100MHz scope and it seems to be in the right ballpark. Setting the radio to a succession of increasing frequencies the si570 looks right as far as 50MHz. I didn't go higher as it seemed pointless. I think the si570 is generating the right frequency (2x the frequency selected in Rocky), but as I said, at about 20Mhz and up Rocky is dominated by the local AM station. Does anyone have any thoughts on what I should look for? Ron

1651. RE: [UHFSDR] problem above ~20MHz

Yahoo group: UHFSDR
Date: 2013-11-10 01:05:36 UTC
From: Ronald Wagner
Topic: 1646 Message: 1651

I had an old mfj preselector for SWL that I stuck in between my long wire antenna and the UHFSDR. That seemed to do the trick. Although perhaps not ideal, I was able to set the preselector for 50MHZ, set the UHFSDR to 147MHz and heard a local repeater without hearing/seeing KNX at the zero frequency.

Thanks for the help,

Ron

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of MIKE DURKIN
Sent: Wednesday, November 06, 2013 5:00 PM
To: UHFSDR UHFSDR
Subject: RE: [UHFSDR] problem above ~20MHz

HA !!!!!

KQNT run 5Kw ... and i posted a video of the station signal on my house ground !!!!
Its not quite line of sight ... but being under a mile away ... it plain sucked with no filter ..

Mike KC7NOA

To: UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
From: rcwagner@... <mailto:rcwagner@...>
Date: Wed, 6 Nov 2013 08:16:15 -0800
Subject: RE: [UHFSDR] problem above ~20MHz

Thanks Larry and Mike. I'll try sticking in a filter of some sort. For testing I just have a long wire stuck in the antenna jack. I wonder if using a balanced antenna or even a ground connection on the other half the long wire would help.

And I also have KNX 1070 at 50KW within 5 line-of-sight miles. That's the station I hear at the zero frequency. I'm pretty sure I used to pick up that station from my old amalgam fillings.

From: UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com> [mailto:UHFSDR@yahoogroups.com] On Behalf Of MIKE DURKIN
Sent: Tuesday, November 05, 2013 10:02 PM
To: UHFSDR UHFSDR
Subject: RE: [UHFSDR] problem above ~20MHz

yea .. get a bandpass filter for the front end .... its a mixed hetrodyne ??....

Might be also from the usb sound card ...

Figure out what station it is will also help to track the source down ... iv got KQNT blasting me ... look it up and my call ..... hi hi .. ouch.

if you have a tuner .. that would help eliminate sources ...

Mike KC7NOA

To: UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
From: rcwagner@... <mailto:rcwagner@...>
Date: Tue, 5 Nov 2013 21:14:16 -0800
Subject: [UHFSDR] problem above ~20MHz

I'm intermittently working on my UHFSDR build and have come across an odd problem I'm hoping someone can help me with. So far I'm just working on the receiving end of things, using Rocky to test. I have the whole radio built and installed in an open chassis. The reception seems to work fine below about 20MHz, however at virtually any frequency above that I get a strong local AM station coming in at the center frequency.

I've checked the output frequency of the si570 on a 100MHz scope and it seems to be in the right ballpark. Setting the radio to a succession of increasing frequencies the si570 looks right as far as 50MHz. I didn't go higher as it seemed pointless. I think the si570 is generating the right frequency (2x the frequency selected in Rocky), but as I said, at about 20Mhz and up Rocky is dominated by the local AM station.

Does anyone have any thoughts on what I should look for?

Ron

1652. UHFSDR and HDSDR

Yahoo group: UHFSDR
Date: 2013-11-10 14:53:31 UTC
From: Jim Sanford
Topic: 1632 Message: 1652

Mike:
I think you had suggested that I use HDSDR with the UHFSDR.

I am starting out with HDSDR and the FunCube Dongle, and have learned
that I need an EXT_IO to interface the hardware.

Questions:
1. Where can I get the EXT_IO.dll for UHFSDR?
2. How is the Si571 controlled -- I've never seen an
"interconnection" page, only instructions about the audio. (Obviously,
it exists...)

Thanks & 73,
Jim
wb4gcs@...

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http://www.avast.com

1653. RE: [UHFSDR] UHFSDR and HDSDR

Yahoo group: UHFSDR
Date: 2013-11-10 16:10:53 UTC
From: MIKE DURKIN
Topic: 1632 Message: 1653

i think that was directed twards me ...

you need a controller for the UHFSDR ... i used 2 different ones ...

A qrp2000 and a sdr2go ..

The qrp2000 uses a usb interface and connects to the control lines of the uhfsdr .... i also used a usb soundcard for Rx/Tx IQ interconnect.

As far as the funQube .. i have no idea ... that requires different control software driver -- i have no idea where to get it at ...

Mike KC7NOA

> To: UHFSDR@yahoogroups.com
> From: wb4gcs@...
> Date: Sun, 10 Nov 2013 09:53:31 -0500
> Subject: [UHFSDR] UHFSDR and HDSDR
>
> Mike:
> I think you had suggested that I use HDSDR with the UHFSDR.
>
> I am starting out with HDSDR and the FunCube Dongle, and have learned
> that I need an EXT_IO to interface the hardware.
>
> Questions:
> 1. Where can I get the EXT_IO.dll for UHFSDR?
> 2. How is the Si571 controlled -- I've never seen an
> "interconnection" page, only instructions about the audio. (Obviously,
> it exists...)
>
> Thanks & 73,
> Jim
> wb4gcs@...
>
>
> ---
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1654. Re: [UHFSDR] UHFSDR and HDSDR

Yahoo group: UHFSDR
Date: 2013-11-10 21:05:18 UTC
From: Dave
Topic: 1632 Message: 1654

Jim and Mike:
The Si570 controller connects to H1. I have just tested my prototype
USB controller board. It plugs into H1 and uses the same chip and
firmware as the Softrocks. I publish more on it this evening.

Dave - WB6DHW
<http://wb6dhw.com>

On 11/10/2013 8:10 AM, MIKE DURKIN wrote:
>
> i think that was directed twards me ...
>
> you need a controller for the UHFSDR ... i used 2 different ones ...
>
> A qrp2000 and a sdr2go ..
>
> The qrp2000 uses a usb interface and connects to the control lines of
> the uhfsdr .... i also used a usb soundcard for Rx/Tx IQ interconnect.
>
> As far as the funQube .. i have no idea ... that requires different
> control software driver -- i have no idea where to get it at ...
>
> Mike KC7NOA
>
>
>
> > To: UHFSDR@yahoogroups.com
> > From: wb4gcs@...
> > Date: Sun, 10 Nov 2013 09:53:31 -0500
> > Subject: [UHFSDR] UHFSDR and HDSDR
> >
> > Mike:
> > I think you had suggested that I use HDSDR with the UHFSDR.
> >
> > I am starting out with HDSDR and the FunCube Dongle, and have learned
> > that I need an EXT_IO to interface the hardware.
> >
> > Questions:
> > 1. Where can I get the EXT_IO.dll for UHFSDR?
> > 2. How is the Si571 controlled -- I've never seen an
> > "interconnection" page, only instructions about the audio. (Obviously,
> > it exists...)
> >
> > Thanks & 73,
> > Jim

> > wb4gcs@...
> >
> >
> > ---
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1655. Re: [UHFSDR] UHFSDR and HDSDR

Yahoo group: UHFSDR
Date: 2013-11-10 21:41:05 UTC
From: Jim Sanford
Topic: 1632 Message: 1655

Dave:

So you're developing a USB control board? GREAT! I'll wait for that.
Most of what I've seen is kind of a klooge.

Will your board be just control, or will it have A/D & D/A as well? (I like the USB2SDR concept, but find it a bit pricey.)

What DLL will be required

Thanks & VERY 73,
Jim
wb4gcs@...

On 11/10/2013 4:05 PM, Dave wrote:
>
> Jim and Mike:
> The Si570 controller connects to H1. I have just tested my
> prototype USB controller board. It plugs into H1 and uses the same
> chip and firmware as the Softrocks. I publish more on it this evening.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 11/10/2013 8:10 AM, MIKE DURKIN wrote:
>>
>> i think that was directed twards me ...
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>> you need a controller for the UHFSDR ... i used 2 different ones ...
>>
>> A qrp2000 and a sdr2go ..
>>
>> The qrp2000 uses a usb interface and connects to the control lines of
>> the uhfsdr .... i also used a usb soundcard for Rx/Tx IQ interconnect.
>>
>> As far as the funQube .. i have no idea ... that requires different
>> control software driver -- i have no idea where to get it at ...
>>
>> Mike KC7NOA
>>
>>
>>
>> > To: UHFSDR@yahoogroups.com
>> > From: wb4gcs@...
>> > Date: Sun, 10 Nov 2013 09:53:31 -0500
>> > Subject: [UHFSDR] UHFSDR and HDSDR

>> >
>> > Mike:
>> > I think you had suggested that I use HDSDR with the UHFSDR.
>> >
>> > I am starting out with HDSDR and the FunCube Dongle, and have learned
>> > that I need an EXT_IO to interface the hardware.
>> >
>> > Questions:
>> > 1. Where can I get the EXT_IO.dll for UHFSDR?
>> > 2. How is the Si571 controlled -- I've never seen an
>> > "interconnection" page, only instructions about the audio. (Obviously,
>> > it exists...)
>> >
>> > Thanks & 73,
>> > Jim
>> > wb4gcs@...
>> >
>> >
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>> > http://www.avast.com
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http://www.avast.com

1656. Re: [UHFSDR] UHFSDR and HDSDR

Yahoo group: UHFSDR
Date: 2013-11-10 23:13:41 UTC
From: Dave
Topic: 1632 Message: 1656

Jim:
My board is a clone of the Softrock USB control circuit. No A/D and
D/A. It has 2 inputs for paddles, a PTT output and can control 4
filters. If you wan stand alone, look at the STM32-SDR. It works well
with the UHFSDR, does not require a PC and has a touch screen.

Dave - WB6DHW
http://wb6dhw.com>

On 11/10/2013 1:41 PM, Jim Sanford wrote:
>
> Dave:
>
> So you're developing a USB control board? GREAT! I'll wait for
> that. Most of what I've seen is kind of a klooge.
>
> Will your board be just control, or will it have A/D & D/A as well?
> (I like the USB2SDR concept, but find it a bit pricey.)
>
> What DLL will be required
>
> Thanks & VERY 73,
> Jim
> wb4gcs@...
>
> On 11/10/2013 4:05 PM, Dave wrote:
>>
>> Jim and Mike:
>> The Si570 controller connects to H1. I have just tested my
>> prototype USB controller board. It plugs into H1 and uses the same
>> chip and firmware as the Softrocks. I publish more on it this evening.
>>
>> Dave - WB6DHW
>> <http://wb6dhw.com>
>>
>> On 11/10/2013 8:10 AM, MIKE DURKIN wrote:
>>>
>>> i think that was directed twards me ...
>>>
>>> you need a controller for the UHFSDR ... i used 2 different ones ...
>>>
>>> A qrp2000 and a sdr2go ..
>>>
>>> The qrp2000 uses a usb interface and connects to the control lines
>>> of the uhfsdr .... i also used a usb soundcard for Rx/Tx IQ

>>> interconnect.
>>>
>>> As far as the funQube .. i have no idea ... that requires different
>>> control software driver -- i have no idea where to get it at ...
>>>
>>> Mike KC7NOA
>>>
>>>
>>>
>>> > To: UHFSDR@yahoogroups.com
>>> > From: wb4gcs@...
>>> > Date: Sun, 10 Nov 2013 09:53:31 -0500
>>> > Subject: [UHFSDR] UHFSDR and HDSDR
>>> >
>>> > Mike:
>>> > I think you had suggested that I use HDSDR with the UHFSDR.
>>> >
>>> > I am starting out with HDSDR and the FunCube Dongle, and have learned
>>> > that I need an EXT_IO to interface the hardware.
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>>> > Questions:
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>>> > 2. How is the Si571 controlled -- I've never seen an
>>> > "interconnection" page, only instructions about the audio.
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>>> > Thanks & 73,
>>> > Jim
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1657. Re: [UHFSDR] UHFSDR and HDSDR

Yahoo group: UHFSDR
Date: 2013-11-11 00:10:09 UTC
From: Jim Sanford
Topic: 1632 Message: 1657

Dave:
Thanks. I'll wait for your board. Happy to have all from same designer!
73,
Jim
wb4gcs@...

On 11/10/2013 6:13 PM, Dave wrote:
>
> Jim:
> My board is a clone of the Softrock USB control circuit. No A/D and
> D/A. It has 2 inputs for paddles, a PTT output and can control 4
> filters. If you wan stand alone, look at the STM32-SDR. It works
> well with the UHFSDR, does not require a PC and has a touch screen.
>
> Dave - WB6DHW
> http://wb6dhw.com>
>
> On 11/10/2013 1:41 PM, Jim Sanford wrote:
>>
>> Dave:
>>
>> So you're developing a USB control board? GREAT! I'll wait for
>> that. Most of what I've seen is kind of a klooge.
>>
>> Will your board be just control, or will it have A/D & D/A as well?
>> (I like the USB2SDR concept, but find it a bit pricey.)
>>
>> What DLL will be required
>>
>> Thanks & VERY 73,
>> Jim
>> wb4gcs@...
>>
>> On 11/10/2013 4:05 PM, Dave wrote:
>>>
>>> Jim and Mike:
>>> The Si570 controller connects to H1. I have just tested my
>>> prototype USB controller board. It plugs into H1 and uses the same
>>> chip and firmware as the Softrocks. I publish more on it this evening.
>>>
>>> Dave - WB6DHW
>>> <http://wb6dhw.com>
>>>
>>> On 11/10/2013 8:10 AM, MIKE DURKIN wrote:
>>>>

>>>> i think that was directed twards me ...
>>>>
>>>> you need a controller for the UHFSDR ... i used 2 different ones ...
>>>>
>>>> A qrp2000 and a sdr2go ..
>>>>
>>>> The qrp2000 uses a usb interface and connects to the control lines
>>>> of the uhfsdr .... i also used a usb soundcard for Rx/Tx IQ
>>>> interconnect.
>>>>
>>>> As far as the funQube .. i have no idea ... that requires different
>>>> control software driver -- i have no idea where to get it at ...
>>>>
>>>> Mike KC7NOA
>>>>
>>>>
>>>>
>>>> > To: UHFSDR@yahoogroups.com
>>>> > From: wb4gcs@...
>>>> > Date: Sun, 10 Nov 2013 09:53:31 -0500
>>>> > Subject: [UHFSDR] UHFSDR and HDSDR
>>>> >
>>>> > Mike:
>>>> > I think you had suggested that I use HDSDR with the UHFSDR.
>>>> >
>>>> > I am starting out with HDSDR and the FunCube Dongle, and have
>>>> learned
>>>> > that I need an EXT_IO to interface the hardware.
>>>> >
>>>> > Questions:
>>>> > 1. Where can I get the EXT_IO.dll for UHFSDR?
>>>> > 2. How is the Si571 controlled -- I've never seen an
>>>> > "interconnection" page, only instructions about the audio.
>>>> (Obviously,
>>>> > it exists...)
>>>> >
>>>> > Thanks & 73,
>>>> > Jim
>>>> > wb4gcs@...
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1658. RE: UHFSDR and HDSDR

Yahoo group: UHFSDR
Date: 2013-11-11 15:38:34 UTC
From: <yl2qn.andy@...>
Topic: 1632 Message: 1658

Dave,

This is really great to have a control board similar to Softrock. If you make a clone, why not to use the ATtiny with more pins and make more powerful band control with 3 or 4 pins. This will allow to control more band specific filters then only four bands.

Regards,
Andy - YL2QN

---In uhfsdr@yahoogroups.com, <dave@...> wrote:
My board is a clone of the Softrock USB control circuit. No A/D and D/A. It has 2 inputs for paddles, a PTT output and can control 4 filters. .....

Dave - WB6DHW
http://wb6dhw.com http://wb6dhw.com>

1659. RE: [UHFSDR] RE: UHFSDR and HDSDR

Yahoo group: UHFSDR
Date: 2013-11-11 16:39:01 UTC
From: MIKE DURKIN
Topic: 1632 Message: 1659

I think Alex Lee did .... but with PicMicro ... he's not actively working with it because he's got way larger fish to fry ...

To: UHFSDR@yahoogroups.com
From: yl2qn.andy@...
Date: Mon, 11 Nov 2013 07:38:34 -0800
Subject: [UHFSDR] RE: UHFSDR and HDSDR

Dave,

This is really great to have a control board similar to Softrock. If you make a clone, why not to use the ATtiny with more pins and make more powerful band control with 3 or 4 pins. This will allow to control more band specific filters then only four bands.
Regards,Andy - YL2QN

---In uhfsdr@yahoogroups.com, <dave@...> wrote:
My board is a clone of the Softrock USB control circuit. No A/D
and D/A. It has 2 inputs for paddles, a PTT output and can
control 4 filters. .....

Dave - WB6DHW

http://wb6dhw.com>

1660. Re: [UHFSDR] RE: UHFSDR and HDSDR

Yahoo group: UHFSDR
Date: 2013-11-11 16:56:31 UTC
From: Sid Boyce
Topic: 1632 Message: 1660

You are thinking of the Mobo, mobokits.stormwarning.org and
ww.wb5rvz.com/sdr/mobo43/ for the SR v6.3 and the SR63ng.

W9AMR did some modifications for it to be connected to the UHFSDR.

I would have to look back in my emails for the details.
73 ... Sid.

On 11/11/13 16:39, MIKE DURKIN wrote:
>
> I think Alex Lee did .... but with PicMicro ... he's not actively
> working with it because he's got way larger fish to fry ...
>
> ---
> To: UHFSDR@yahoogroups.com
> From: yl2qn.andy@...
> Date: Mon, 11 Nov 2013 07:38:34 -0800
> Subject: [UHFSDR] RE: UHFSDR and HDSDR
>
>
> Dave,
>
>
> This is really great to have a control board similar to Softrock. If
> you make a clone, why not to use the ATtiny with more pins and make
> more powerful band control with 3 or 4 pins. This will allow to
> control more band specific filters then only four bands.
>
>
> Regards,
>
> Andy - YL2QN
>
>
>
> ---In uhfsdr@yahoogroups.com, <dave@...> wrote:
> My board is a clone of the Softrock USB control circuit. No A/D and
> D/A. It has 2 inputs for paddles, a PTT output and can control 4
> filters. .....
>
> Dave - WB6DHW
> http://wb6dhw.com>
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1661. Fwd: Re: [UHFSDR] RE: UHFSDR + Mobo + sdr-widget

Yahoo group: UHFSDR
Date: 2013-11-11 17:03:02 UTC
From: Sid Boyce
Topic: 1039 Message: 1661

-------- Original Message --------
Subject: Re: [UHFSDR] RE: UHFSDR + Mobo + sdr-widget
Date: Mon, 25 Jun 2012 22:15:53 -0400 (EDT)
From: w9amr@...
Reply-To: UHFSDR@yahoogroups.com
To: UHFSDR@yahoogroups.com

Hi All, here is the info I wrote a long time ago.
First off, ****DO THIS AT YOUR OWN RISK!**** Now that I scared you read on...
How to setup a MOBO to be driven with any Softrock or a "UHFSDR".

There are probably better ways to do this. But this works for me! The Mobo has a interesting input switching circuitry. Very clever and ideal for the 6.3(NG) We need to make a few changes. The mods are reversible no foil cutting necessary. If you use the UHFSDR I don't think the stock mobo firmware will work. I am using the Widget for a controller. Loftur or Art could answer that question. I am sure it could be modified if there were enough interested. There are other controllers that might work?

I run the 12v+ to the input on the 5v regulator and ground to the ground pin. Add a 470mfd cap to the input.
Remove C12 C17

Lift pin 9 on U8 and jumper the lifted IC pin 9 to pin 7 on same IC

P19 Pin1, S12V goes in here.

I2C, P13 goes to UHFSDR H2.

Radio antenna goes to Pin 9 U8 put a .1 cap in series with it. 25-50v rating is plenty.

TX antenna goes to P15 Pin 1 or 5

RX Antenna goes to P17

Use a double pole double throw relay use 1 half for antenna switching and the other to do something else if needed sequential keying for bias an such?. You could make up a ciruit using BS170 just like the 6.3 uses but I think the relay is easier and less prone to failure in the future. And the relay gives more flexabilty.

I need to test it a bit more and make sure it is 100%! So far no issues. I am using the Widget V.005 unified version.

I have a lot more to do to the project. When I am done I hope to go 160m to 2m. I will have more and better info coming shortly. It is not as hard as it looks to interface the MOBO to other projects. Take time to make sure your wiring is correct. Use the schematic to understand what I have don't Have fun with it!!!

Larry W9AMR
In a message dated 6/25/2012 9:47:38 P.M. Eastern Daylight Time, sboyce@... writes:

Kees,
I've been digging back in the mail.
I never got the write-up from Larry.

73 ... Sid.

-------- Original Message --------
Subject: [[UHF-SDRkits]] UHFSDR + Mobo + sdr-widget
Date: Wed, 25 May 2011 22:56:57 +0800
From: Alex Lee <alexlee188@...>
Reply-To: uhf-sdrkits@...
To: uhf-sdrkits@..., W9AMR@...

Hi all,

Larry W9AMR recently built this and he has a fully functional 160-10M HF transceiver with 5W output. There is a single USB connection to the PC for both the IQ audio and rig control (Si570, band switching, T/R switching, Fan control etc.) He is planning to add a VHF PA portion to extend the freq range.

Larry is prepared to share the details of his project with others in the UHFSDR forum but he was not able to post. Maybe the list moderator can contact him if there is interest?

73 Alex

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1662. Re: [UHFSDR] RE: UHFSDR and HDSDR

Yahoo group: UHFSDR
Date: 2013-11-11 23:40:29 UTC
From: Dave
Topic: 1632 Message: 1662

Andy:
Using additional pins on the larger device would require additions to the firmware which was not written by me. But, I will look at a dual layout when I add it to the UHFSDR board.

Dave - WB6DHW
<http://wb6dhw.com>

On 11/11/2013 7:38 AM, yl2qn.andy@... wrote:
>
> Dave,
>
>
> This is really great to have a control board similar to Softrock. If
> you make a clone, why not to use the ATtiny with more pins and make
> more powerful band control with 3 or 4 pins. This will allow to
> control more band specific filters then only four bands.
>
>
> Regards,
>
> Andy - YL2QN
>
>
>
> ---In uhfsdr@yahoogroups.com, <dave@...> wrote:
> My board is a clone of the Softrock USB control circuit. No A/D and
> D/A. It has 2 inputs for paddles, a PTT output and can control 4
> filters. ......
>
> Dave - WB6DHW
> http://wb6dhw.com>
>

1663. Re: [UHFSDR] RE: UHFSDR and HDSDR

Yahoo group: UHFSDR
Date: 2013-11-12 12:18:41 UTC
From: J RUSHFORTH
Topic: 1632 Message: 1663

Jim Rushforth

From: MIKE DURKIN <Patriot121@...>
To: UHFSDR UHFSDR <uhfsdr@yahoogroups.com>
Sent: Monday, 11 November 2013, 16:39
Subject: RE: [UHFSDR] RE: UHFSDR and HDSDR

I think Alex Lee did .... but with PicMicro ... he's not actively working with it because he's got way larger fish to fry ...

To: UHFSDR@yahoogroups.com
From: yl2qn.andy@...
Date: Mon, 11 Nov 2013 07:38:34 -0800
Subject: [UHFSDR] RE: UHFSDR and HDSDR

Dave,

This is really great to have a control board similar to Softrock. If you make a clone, why not to use the ATtiny with more pins and make more powerful band control with 3 or 4 pins. This will allow to control more band specific filters then only four bands.

Regards,
Andy - YL2QN

---In uhfsdr@yahoogroups.com, <dave@...> wrote:

My board is a clone of the Softrock USB control circuit. No A/D and D/A. It has 2 inputs for paddles, a PTT output and can control 4 filters. .....

Dave - WB6DHW
 http://wb6dhw.com>

1664. Interfacing

Yahoo group: UHFSDR
Date: 2013-11-17 23:45:13 UTC
From: Jim Sanford
Topic: 1664 Message: 1664

All:

Has anyone used UHFSDR with the TAPR/OpenHPSDR Ozzy/Janus boards??

If so, I'd like some details.

Thanks & 73,
Jim
wb4gcs@...

This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

1665. RE: Re: [UHFSDR] RE: UHFSDR + Mobo + sdr-widget

Yahoo group: UHFSDR
Date: 2013-11-18 01:45:36 UTC
From: Ronald Wagner
Topic: 1039 Message: 1665

Larry, you mention below that you don't think the stock Mobo firmware would work. Is that really the case?

I think I have my UHFSDR working (thanks to help from this group) and think the next step would be something like the Mobo.

And are the buy instructions on the stormwarning site still correct for the Mobo?

-------- Original Message --------

Subject:

Re: [UHFSDR] RE: UHFSDR + Mobo + sdr-widget

Date:

Mon, 25 Jun 2012 22:15:53 -0400 (EDT)

From:

w9amr@... <mailto:w9amr@...>

Reply-To:

UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>

To:

UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>

Hi All, here is the info I wrote a long time ago.

First off, ****DO THIS AT YOUR OWN RISK!**** Now that I scared you read on...

How to setup a MOBO to be driven with any Softrock or a "UHFSDR".

There are probably better ways to do this. But this works for me! The Mobo has a interesting input switching circuitry. Very clever and ideal for the 6.3(NG) We need to make a few changes. The mods are reversible no foil cutting necessary. If you use the UHFSDR I don't think the stock mobo firmware will work. I am using the Widget for a controller. Loftur or Art could answer that question. I am sure it could be modified if there were enough interested. There are other controllers that might work?

I run the 12v+ to the input on the 5v regulator and ground to the ground pin. Add a 470mfd cap to the input.

Remove C12 C17

Lift pin 9 on U8 and jumper the lifted IC pin 9 to pin 7 on same IC

P19 Pin1, S12V goes in here.

I2C, P13 goes to UHFSDR H2.

Radio antenna goes to Pin 9 U8 put a .1 cap in series with it. 25-50v rating is plenty.

TX antenna goes to P15 Pin 1 or 5

RX Antenna goes to P17

Use a double pole double throw relay use 1 half for antenna switching and the other to do something else if needed sequential keying for bias an such?. You could make up a ciruit using BS170 just like the 6.3 uses but I think the relay is easier and less prone to failure in the future. And the relay gives more flexabilty.

I need to test it a bit more and make sure it is 100%! So far no issues. I am using the Widget V.005 unified version.

I have a lot more to do to the project. When I am done I hope to go 160m to 2m. I will have more and better info coming shortly. It is not as hard as it looks to interface the MOBO to other projects. Take time to make sure your wiring is correct. Use the schematic to understand what I have don't Have fun with it!!!

Larry W9AMR

In a message dated 6/25/2012 9:47:38 P.M. Eastern Daylight Time, sboyce@... <mailto:sboyce@...> writes:

Kees,
I've been digging back in the mail.
I never got the write-up from Larry.

73 ... Sid.

-------- Original Message --------

Subject:

[[UHF-SDRkits]] UHFSDR + Mobo + sdr-widget

Date:

Wed, 25 May 2011 22:56:57 +0800

From:

Alex Lee <mailto:alexlee188@...> <alexlee188@...>

Reply-To:

uhf-sdrkits@... <mailto:uhf-sdrkits@...>

To:

uhf-sdrkits@... <mailto:uhf-sdrkits@...> ,
W9AMR@... <mailto:W9AMR@...>

Hi all,

Larry W9AMR recently built this and he has a fully functional 160-10M HF transceiver with 5W output. There is a single USB connection to the PC for both the IQ audio and rig control (Si570, band switching, T/R switching, Fan control etc.) He is planning to add a VHF PA portion to extend the freq range.

Larry is prepared to share the details of his project with others in the UHFSDR forum but he was not able to post. Maybe the list moderator can contact him if there is interest?

73 Alex

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

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1666. RE: Re: [UHFSDR] RE: UHFSDR + Mobo + sdr-widget

Yahoo group: UHFSDR
Date: 2013-11-18 05:09:05 UTC
From: The Silver Fox
Topic: 1039 Message: 1666

Yes. The prices are still the same although the costs are dynamic due to changes in prices at the parts dealers. So far, the cost of mailing the kits has been the driving force in price increases. If you order, please ensure that you note the PCB costs have to be paid to Alex Lee.

73,

Alan - W6ARH

Mobokits - http://mobokits.stormwarning.org

UHFSDR - Order by sending USD via paypal to my email address. US orders are $210 and DX are $215.

http://www.wb6dhw.com/For_Sale.html#UHFSDR

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of Ronald Wagner
Sent: Sunday, November 17, 2013 5:46 PM
To: UHFSDR@yahoogroups.com
Subject: RE: Re: [UHFSDR] RE: UHFSDR + Mobo + sdr-widget

Larry, you mention below that you don't think the stock Mobo firmware would work. Is that really the case?

I think I have my UHFSDR working (thanks to help from this group) and think the next step would be something like the Mobo.

And are the buy instructions on the stormwarning site still correct for the Mobo?

-------- Original Message --------

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Date:

Mon, 25 Jun 2012 22:15:53 -0400 (EDT)

From:

w9amr@...

Reply-To:

UHFSDR@yahoogroups.com

To:

UHFSDR@yahoogroups.com

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I've been digging back in the mail.
I never got the write-up from Larry.

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[[UHF-SDRkits]] UHFSDR + Mobo + sdr-widget

Date:

Wed, 25 May 2011 22:56:57 +0800

From:

Alex Lee <mailto:alexlee188@...> <alexlee188@...>

Reply-To:

uhf-sdrkits@...

To:

uhf-sdrkits@..., W9AMR@...

Hi all,

Larry W9AMR recently built this and he has a fully functional 160-10M HF transceiver with 5W output. There is a single USB connection to the PC for both the IQ audio and rig control (Si570, band switching, T/R switching, Fan control etc.) He is planning to add a VHF PA portion to extend the freq range.

Larry is prepared to share the details of his project with others in the UHFSDR forum but he was not able to post. Maybe the list moderator can contact him if there is interest?

73 Alex

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Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
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---

No virus found in this message.
Checked by AVG - www.avg.com
Version: 2013.0.3426 / Virus Database: 3629/6844 - Release Date: 11/17/13

1667. Bandpass board for UHFSDR

Yahoo group: UHFSDR
Date: 2013-12-03 23:53:19 UTC
From: <johntoscano22350@...>
Topic: 1667 Message: 1667

WB6DHW has a bandpass board that covers the HF bands. You can see it at:
http://wb6dhw.com/For_Sale.html#BPF http://wb6dhw.com/For_Sale.html#BPF

Has anyone developed a similar board for the 50-54, 144-148, 222-225, and 420-450 MHz bands which the UHFSDR is capable of tuning? It might be possible to use the WB6DHW board with all new inductors and capacitors to change the tuning, if those components would still fit in the allotted spaces. Another change needed would be the transformer at the antenna side. He uses a TC1-1 (now obsolete, and replaced by the TC1-1G2+) from Minicircuits, but this is good for HF and not for UHF. The UHFSDR uses a TC1-13M (now superseded by the TC1-13MG2+) which would probably be the part to use on a bandpass board strictly for the VHF & up bands (it does not go down to the 80 and 160 meter bands). The other issue is that these transformers from Minicircuits are sold only in a minimum quantity of 20 pieces, meaning you would need to buy 20 of each (about $82) to get one of each to build two bandpass boards, one for HF and one for VHF+.

Any thoughts on (a) whether this is a good approach to adding filtering to the UHFSDR, and (b) if anyone is interested in a group buy of the transformers so as to make the cost more acceptable for those of us interested in only 1 or 2 parts?

I don't have a UHFSDR at this point. I am thinking about building one to go with an STM32-SDR kit to have an all-in-one radio (no external computer needed). I think it could be really great for use as an IF radio to my microwave transverters, especially for rover use.

Thanks in advance.
John P. Toscano, W0JT/5

1668. Re: [UHFSDR] Bandpass board for UHFSDR

Yahoo group: UHFSDR
Date: 2013-12-04 00:02:14 UTC
From: Dave Miller
Topic: 1667 Message: 1668

John,
My first thought is layout might not work that well at VHF and above. It should be stripline etc.
I am interested in a 6M,2M. 1.25M and 70CM bandpass board. I should put that on the list of things to do ;-)
I have a UHFSDR and loads of STM32-SDR's ;-)
I did a bandpass filter up for 6 last week and it seemed to work. No much smoke out the pipe though. I should do a 2M or 1.25M one up to try.

The STM32-SDR does not to FM right now. But SSB works well.

Dave
VE7PKE

On Tue, Dec 3, 2013 at 3:53 PM, <johntoscano22350@...> wrote:

>
>
> WB6DHW has a bandpass board that covers the HF bands. You can see it at:
>
> http://wb6dhw.com/For_Sale.html#BPF
>
>
> Has anyone developed a similar board for the 50-54, 144-148, 222-225, and
> 420-450 MHz bands which the UHFSDR is capable of tuning? It might be
> possible to use the WB6DHW board with all new inductors and capacitors to
> change the tuning, if those components would still fit in the allotted
> spaces. Another change needed would be the transformer at the antenna side.
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> microwave transverters, especially for rover use.
>
>
> Thanks in advance.
>
> John P. Toscano, W0JT/5
>
>
>

1669. RE: [UHFSDR] Bandpass board for UHFSDR

Yahoo group: UHFSDR
Date: 2013-12-04 01:12:15 UTC
From: MIKE DURKIN
Topic: 1667 Message: 1669

Is htere a list of things tyhat need to be removed on the discovery board for it to be used?

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: ve7pke@gmail.com
Date: Tue, 3 Dec 2013 16:02:14 -0800
Subject: Re: [UHFSDR] Bandpass board for UHFSDR

John,
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Thanks in advance.
John P. Toscano, W0JT/5

1670. RE: [UHFSDR] Bandpass board for UHFSDR

Yahoo group: UHFSDR
Date: 2013-12-04 01:55:43 UTC
From: The Silver Fox
Topic: 1667 Message: 1670

Check out the mobo kit as well.

Mobokits - http://mobokits.stormwarning.org

UHFSDR - Order by sending USD via paypal to my email address. US orders are $210 and DX are $215.

http://www.wb6dhw.com/For_Sale.html#UHFSDR

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of johntoscano22350@...
Sent: Tuesday, December 03, 2013 3:53 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Bandpass board for UHFSDR

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Thanks in advance.

John P. Toscano, W0JT/5

No virus found in this message.
Checked by AVG - www.avg.com

Version: 2013.0.3426 / Virus Database: 3629/6886 - Release Date: 12/02/13

1671. RE: [UHFSDR] Bandpass board for UHFSDR

Yahoo group: UHFSDR
Date: 2013-12-12 14:36:52 UTC
From: <edfinn11@...>
Topic: 1667 Message: 1671

Hello all,

I want to use my uhfsdr as a 144 mHz microwave IF. Thus, I was thinking of adding a 144 mHz bandpass in front of it. A few dB of loss would be ok for me, so I was going to use a 2 or 3 section helical bandpass such as the Temwell parts used in DEM transverters. I will lay out a small pcb to hold the filter and some sma connectors.

I may be able to fit a few on a panel, so I was wondering if anyone else was interested in this application. This would not be a good idea for direct use on 2 meters.

Ed wa3drc

1672. Re: [UHFSDR] Bandpass board for UHFSDR

Yahoo group: UHFSDR
Date: 2013-12-12 21:18:29 UTC
From: Jim Sanford
Topic: 1667 Message: 1672

Ed:
I would be interested.
Why do you say not a good idea for direct use on 2m??

73,
Jim
wb4gcs@...

On 12/12/2013 9:36 AM, edfinn11@... wrote:
>
> Hello all,
>
> I want to use my uhfsdr as a 144 mHz microwave IF. Thus, I was
> thinking of adding a 144 mHz bandpass in front of it. A few dB of loss
> would be ok for me, so I was going to use a 2 or 3 section helical
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> for direct use on 2 meters.
>
> Ed wa3drc
>
>

This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

1673. Re: [UHFSDR] Bandpass board for UHFSDR

Yahoo group: UHFSDR
Date: 2013-12-12 22:00:26 UTC
From: Bill Maxwell
Topic: 1667 Message: 1673

Sounds useful Ed, so I am interested in one.

Bill VK7MX
On 13/12/2013 1:36 AM, edfinn11@... wrote:
>
> Hello all,
>
> I want to use my uhfsdr as a 144 mHz microwave IF. Thus, I was
> thinking of adding a 144 mHz bandpass in front of it. A few dB of loss
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> else was interested in this application. This would not be a good idea
> for direct use on 2 meters.
>
> Ed wa3drc
>
>

1674. Re: [UHFSDR] Bandpass board for UHFSDR

Yahoo group: UHFSDR
Date: 2013-12-12 23:37:47 UTC
From: David E Brandon
Topic: 1667 Message: 1674

Hi Downeast Microwave actually has pcb's for the filters - they tell me you must just need to email or phone and tell if you wish the 2 or 3 section model. Been using a couple since VHF conf in Cedar Rapids a couple of years back.

1675. Re: [UHFSDR] Bandpass board for UHFSDR

Yahoo group: UHFSDR
Date: 2013-12-12 23:45:11 UTC
From: Alan Hill
Topic: 1667 Message: 1675

If you want more controls and flexibility consider the Mobokit.
73,
Alan - W6ARH

On Thu, Dec 12, 2013 at 3:37 PM, David E Brandon <brandondavide@mchsi.com>wrote:

>
>
> Hi Downeast Microwave actually has pcb's for the filters - they tell
> me you must just need to email or phone and tell if you wish the 2 or 3
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> of years back.
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>

1676. RE: [UHFSDR] Bandpass board for UHFSDR

Yahoo group: UHFSDR
Date: 2013-12-13 02:19:53 UTC
From: MIKE DURKIN
Topic: 1667 Message: 1676

Have any specs . or link to it ....

To: UHFSDR@yahoogroups.com
From: brandondavide@...
Date: Thu, 12 Dec 2013 17:37:47 -0600
Subject: Re: [UHFSDR] Bandpass board for UHFSDR

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filters - they tell me you must just need to email or phone and tell if you
wish the 2 or 3 section model. Been using a couple since VHF conf in Cedar
Rapids a couple of years back.

1677. RE: [UHFSDR] Bandpass board for UHFSDR

Yahoo group: UHFSDR
Date: 2013-12-13 02:23:58 UTC
From: MIKE DURKIN
Topic: 1667 Message: 1677

If 2m 1.25m and 70cm could be on one pcb ....

Probably be the size of a UHFSDR though ..----... but who cares !!!

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: wrmaxwell@...
Date: Fri, 13 Dec 2013 09:00:26 +1100
Subject: Re: [UHFSDR] Bandpass board for UHFSDR

Sounds useful Ed, so I
am interested in one.

Bill VK7MX

On 13/12/2013 1:36 AM,
edfinn11@... wrote:

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would not be a good idea for direct use on 2 meters.

Ed wa3drc

1678. Re: [UHFSDR] Bandpass board for UHFSDR

Yahoo group: UHFSDR
Date: 2013-12-13 02:29:48 UTC
From: Steve Wright
Topic: 1667 Message: 1678

Why not just use this?

http://wb6dhw.com/For_Sale.html#BPF

On Fri, Dec 13, 2013 at 3:23 PM, MIKE DURKIN <Patriot121@...> wrote:

>
>
> If 2m 1.25m and 70cm could be on one pcb ....
>
> Probably be the size of a UHFSDR though ..----... but who cares !!!
>
> Mike KC7NOA
>

1679. Re: [UHFSDR] Bandpass board for UHFSDR

Yahoo group: UHFSDR
Date: 2013-12-13 02:42:40 UTC
From: Glen Overby
Topic: 1667 Message: 1679

On Thu, Dec 12, 2013 at 8:19 PM, MIKE DURKIN <Patriot121@...> wrote:

>
>
> Have any specs . or link to it ....
>

www.downeastmicrowave.com

They don't list the filters individually on their catalog page anymore, so you have to call them. I purchased a 2m helical filter from them at the CSVHFS conference last summer and they said they were having problems with their supplier.

Glen, kc0iyt

1680. RE: [UHFSDR] Bandpass board for UHFSDR

Yahoo group: UHFSDR
Date: 2013-12-13 15:50:34 UTC
From: MIKE DURKIN
Topic: 1667 Message: 1680

Steve .. could you be more specific?

I don't see a WB6DHW board for 6M, 2M 1.25M or 40CM .....

Just one to cover 1.5Mhz to 29Mhz ..

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: stevewrightnz@...
Date: Fri, 13 Dec 2013 15:29:48 +1300
Subject: Re: [UHFSDR] Bandpass board for UHFSDR

Why not just use this?
http://wb6dhw.com/For_Sale.html#BPF

On Fri, Dec 13, 2013 at 3:23 PM, MIKE DURKIN <Patriot121@...> wrote:

If 2m 1.25m and 70cm could be on one pcb ....

Probably be the size of a UHFSDR though ..----... but who cares !!!

Mike KC7NOA

1681. RE: [UHFSDR] Bandpass board for UHFSDR

Yahoo group: UHFSDR
Date: 2013-12-13 19:10:09 UTC
From: <eskolin@...>
Topic: 1667 Message: 1681

Hi Mike

I have made this for my UHFSDR and it worke fine...it is only
50x20mm so it fit in any where :-)

http://yu1lm.qrpradio.com/2m%20BP%20FILTER-YU1LM.pdf
http://yu1lm.qrpradio.com/2m%20BP%20FILTER-YU1LM.pdf

OZ1CT Bent

1682. Re: [UHFSDR] Bandpass board for UHFSDR

Yahoo group: UHFSDR
Date: 2013-12-13 21:35:53 UTC
From: Dave
Topic: 1667 Message: 1682

Mike:
You could change the filter components for VHF. I'm not sure what
the upper limit is on the CMOS multiplexer.

Dave - WB6DHW
<http://wb6dhw.com>

On 12/13/2013 7:50 AM, MIKE DURKIN wrote:
>
> Steve .. could you be more specific?
>
> I don't see a WB6DHW board for 6M, 2M 1.25M or 40CM .....
>
> Just one to cover 1.5Mhz to 29Mhz ..
>
> Mike KC7NOA
>
> ---
> To: UHFSDR@yahoogroups.com
> From: stevewrightnz@...
> Date: Fri, 13 Dec 2013 15:29:48 +1300
> Subject: Re: [UHFSDR] Bandpass board for UHFSDR
>
>
>
> Why not just use this?
>
> http://wb6dhw.com/For_Sale.html#BPF
>
>
>
> On Fri, Dec 13, 2013 at 3:23 PM, MIKE DURKIN <Patriot121@...
> <mailto:Patriot121@...>> wrote:
>
>
> If 2m 1.25m and 70cm could be on one pcb ....
>
> Probably be the size of a UHFSDR though ..----... but who cares !!!
>
> Mike KC7NOA
>
>
>
>

1683. Re: [UHFSDR] Bandpass board for UHFSDR

Yahoo group: UHFSDR
Date: 2013-12-13 21:45:58 UTC
From: Steve Wright
Topic: 1667 Message: 1683

```
>
> I understand it is a bare board that we might populate as we choose.
> There is also a link to filter designing software. Perhaps no one has
> thought to populate the board for VHF/UHF/SHF but would have thought the
> success of that was implied.
>

>
> On 12/13/2013 7:50 AM, MIKE DURKIN wrote:
>
>
>
> Steve .. could you be more specific?
>
> I don't see a WB6DHW board for 6M, 2M 1.25M or 40CM .....
>
> Just one to cover 1.5Mhz to 29Mhz ..
>
> Mike KC7NOA
>
>
--
Meshnetworks - Rangitaiki Plains Rural Broadband Internet Providers
+64 21 040 5067
```

1684. USB Sound card fer PowerSDR-IQ

Yahoo group: UHFSDR
Date: 2013-12-14 16:53:38 UTC
From: <eskolin@...>
Topic: 1684 Message: 1684

Hi all

I have a USB2SDR card and using PowerSDR-IQ v 1.19.3.20 but if I wanted to try a new version of PowerSDR , I cant use the USB2SDR card :-(... so wat sound card are you using ??? it has to be on USB since I have an internal card (Quartet) in my pc

OZ1CT Bent

1685. RE: USB Sound card fer PowerSDR-IQ

Yahoo group: UHFSDR
Date: 2013-12-18 16:42:55 UTC
From: <pascal@...>
Topic: 1684 Message: 1685

E-MU 202 or similar like E-MU Tracker work fine...low cost on second-hand market...good luck

1687. Where can I to buy this UHFSDR Transceiver (full kit) ??

Yahoo group: UHFSDR
Date: 2014-01-06 00:10:26 UTC
From: <lsedr@...>
Topic: 1687 Message: 1687

Where can I to buy this UHFSDR Transceiver ??
thanks
73's

1688. Re: [UHFSDR] Where can I to buy this UHFSDR Transceiver (full kit) ??

Yahoo group: UHFSDR
Date: 2014-01-06 00:15:53 UTC
From: Dave Miller
Topic: 1687 Message: 1688

Go to Dave's page
http://wb6dhw.com/For_Sale.html

There is an email address for Alan Hill who is the man

Dave
VE7PKE

Sent from my iPhone

On 2014-01-05, at 16:10, <lsedr@...> wrote:

> Where can I to buy this UHFSDR Transceiver ??
>
> thanks
> 73's
>

1689. Re: [UHFSDR] Where can I to buy this UHFSDR Transceiver (full kit) ??

Yahoo group: UHFSDR
Date: 2014-01-06 00:37:46 UTC
From: <lsedr@...>
Topic: 1687 Message: 1689

ok thanks
73's
HI3NMF

1690. How many watts have this Transceiver ?

Yahoo group: UHFSDR
Date: 2014-01-06 00:47:11 UTC
From: <lsedr@...>
Topic: 1690 Message: 1690

How many watts have this Transceiver ?

1691. Re: [UHFSDR] How many watts have this Transceiver ?

Yahoo group: UHFSDR
Date: 2014-01-06 01:04:57 UTC
From: Dave
Topic: 1690 Message: 1691

.05 to .1 depending on how much audio out of your sound card

Dave - WB6DHW
<http://wb6dhw.com>

On 1/5/2014 4:47 PM, lsedr@... wrote:
>
> How many watts have this Transceiver ?
>
>

1692. Re: [UHFSDR] How many watts have this Transceiver ?

Yahoo group: UHFSDR
Date: 2014-01-06 01:17:38 UTC
From: <lsedr@...>
Topic: 1690 Message: 1692

wow is very low !! and what is the price of the full kit with all components ?

1693. RE: [UHFSDR] How many watts have this Transceiver ?

Yahoo group: UHFSDR
Date: 2014-01-06 02:37:41 UTC
From: MIKE DURKIN
Topic: 1690 Message: 1693

wish there was an 5w amp that covered 160m up to 700MHz !!!

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Sun, 5 Jan 2014 17:04:57 -0800
Subject: Re: [UHFSDR] How many watts have this Transceiver ?

.05 to .1 depending on how much audio
out of your sound card

Dave - WB6DHW

<http://wb6dhw.com>

On 1/5/2014 4:47 PM, lsedr@... wrote:

How many watts have this Transceiver ?

1694. RE: [UHFSDR] How many watts have this Transceiver ?

Yahoo group: UHFSDR
Date: 2014-01-06 03:03:37 UTC
From: Silverfox
Topic: 1690 Message: 1694

Isn't the mobokit capable of amplifying the signal to nearly that level?

73,

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] On Behalf Of
MIKE DURKIN
Sent: Sunday, January 5, 2014 6:38 PM
To: UHFSDR UHFSDR
Subject: RE: [UHFSDR] How many watts have this Transceiver ?

wish there was an 5w amp that covered 160m up to 700MHz !!!

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Sun, 5 Jan 2014 17:04:57 -0800
Subject: Re: [UHFSDR] How many watts have this Transceiver ?

.05 to .1 depending on how much audio out of your sound card

Dave - WB6DHW
<http://wb6dhw.com> <http://wb6dhw.com>

On 1/5/2014 4:47 PM, lsedr@... wrote:

How many watts have this Transceiver ?

1695. RE: [UHFSDR] How many watts have this Transceiver ?

Yahoo group: UHFSDR
Date: 2014-01-06 08:45:16 UTC
From: Marc OLANIE
Topic: 1690 Message: 1695
Attachments: 1 described; binary payloads are missing from this source WARC

Hi

@Mike

>wish there was an 5w amp that covered 160m up to 700MHz !!!

:-))) got one ! (average 2 watts to 5 watts depending on the frequency)

In fact, I had the chance to find (ham flea marked are full of treasures) a professional linear amp covering from 3MHz to 1300 MHz. It is based on a Motorola hybrid amp, one is acting as a driver, the two others are running parallel

36 dbm on 2 meters and 70 cm and 33 dbm on 1200 is quite enough for a field UHFSDR. The only drawback is the filtering. The design of the bpf is not trivial, I'm still working on it

@ Alan

The mobokit works from 1 to 30 MHz only... and connecting it to a UHFSDR is not for the faint of heart. As far as I know, only one ham succeed with such a hack. And the mobo is definitely more efficient on a softrock 6.5 than with a UHFSDR (mixer performances... I find the tayloe mixer more efficient on low band and Dave's dual diode mixer better on U/Vhf bands)

My "motorola" amp is certainly heavily copyrighted, I honestly cannot publish its schematic on the web. But using the same "spirit and inspiration" don't seems impossible to me. I must admit, I definitely don't have the knowledge and the skill to do it myself

73 and season's greetings

Marc f6itu

1696. Re: [UHFSDR] How many watts have this Transceiver ? [1 Attachment]

Yahoo group: UHFSDR
Date: 2014-01-06 08:53:23 UTC
From: Dave
Topic: 1690 Message: 1696

The final amp in the FT-817 and the driver amp in the FT-857 and
Ft-897 share a 5W circuit and are one amp covering from 160M thru 70cm
producing 5W.

Dave - WB6DHW
<http://wb6dhw.com>

On 1/6/2014 12:45 AM, Marc OLANIE wrote:
>
> Hi
>
> @Mike
>
> >wish there was an 5w amp that covered 160m up to 700MHz !!!
>
> :-))) got one ! (average 2 watts to 5 watts depending on the frequency)
>
> In fact, I had the chance to find (ham flea marked are full of
> treasures) a professional linear amp covering from 3MHz to 1300 MHz.
> It is based on a Motorola hybrid amp, one is acting as a driver, the
> two others are running parallel
>
> 36 dbm on 2 meters and 70 cm and 33 dbm on 1200 is quite enough for a
> field UHFSDR. The only drawback is the filtering. The design of the
> bpf is not trivial, I'm still working on it
>
> @ Alan
>
> The mobokit works from 1 to 30 MHz only... and connecting it to a
> UHFSDR is not for the faint of heart. As far as I know, only one ham
> succeed with such a hack. And the mobo is definitely more efficient on
> a softrock 6.5 than with a UHFSDR (mixer performances... I find the
> tayloe mixer more efficient on low band and Dave's dual diode mixer
> better on U/Vhf bands)
>
> My "motorola" amp is certainly heavily copyrighted, I honestly cannot
> publish its schematic on the web. But using the same "spirit and
> inspiration" don't seems impossible to me. I must admit, I definitely
> don't have the knowledge and the skill to do it myself
>
> 73 and season's greetings
>
> Marc f6itu
>
>

1697. Re: [UHFSDR] How many watts have this Transceiver ?

Yahoo group: UHFSDR
Date: 2014-01-06 11:24:29 UTC
From: Sid Boyce
Topic: 1690 Message: 1697

I think you would need one for 160m - 6m, one for VHF and one for UHF.

The K5BCQ 20W PA for 160m - 6m requires 1W input.

Kees, K5BCQ (AQRP group) is preparing a 5W driver to go with his UHFSDR.
He reckons testing is going well and the latest email says he has
ordered PCB's.

http://www.qsl.net/k5bcq/Kits/Kits.html - page down to "The 5W HF
Amplifier Kit #21 ...
73 ... Sid.

On 06/01/14 02:37, MIKE DURKIN wrote:
>
> wish there was an 5w amp that covered 160m up to 700MHz !!!
>
> ----------
> To: UHFSDR@yahoogroups.com
> From: dave@...
> Date: Sun, 5 Jan 2014 17:04:57 -0800
> Subject: Re: [UHFSDR] How many watts have this Transceiver ?
>
>
> .05 to .1 depending on how much audio out of your sound card
>
> Dave - WB6DHW
> <http://wb6dhw.com> <http://wb6dhw.com>
>
> On 1/5/2014 4:47 PM, lsedr@... <mailto:lsedr@...> wrote:
>
> How many watts have this Transceiver ?
>
>
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1698. RE: [UHFSDR] How many watts have this Transceiver ?

Yahoo group: UHFSDR
Date: 2014-01-07 22:33:07 UTC
From: MIKE DURKIN
Topic: 1690 Message: 1698

cool .... now to find a schematic!!!!! (pcb would be nice too)

To: UHFSDR@yahoogroups.com
From: dave@...
Date: Mon, 6 Jan 2014 00:53:23 -0800
Subject: Re: [UHFSDR] How many watts have this Transceiver ?

The final amp in the FT-817 and the
driver amp in the FT-857 and Ft-897 share a 5W circuit and are one
amp covering from 160M thru 70cm producing 5W.

Dave - WB6DHW

<http://wb6dhw.com>

On 1/6/2014 12:45 AM, Marc OLANIE wrote:

Hi
@Mike
>wish there
was an 5w amp that covered 160m up to 700MHz !!!
:-
))) got one ! (average 2 watts to 5 watts depending on
the frequency)
In
fact, I had the chance to find (ham flea marked are
full of treasures) a professional linear amp covering
from 3MHz to 1300 MHz. It is based on a Motorola
hybrid amp, one is acting as a driver, the two others
are running parallel
36
dbm on 2 meters and 70 cm and 33 dbm on 1200 is quite
enough for a field UHFSDR. The only drawback is the
filtering. The design of the bpf is not trivial, I'm
still working on it
@
Alan
The
mobokit works from 1 to 30 MHz only… and connecting it
to a UHFSDR is not for the faint of heart. As far as I
know, only one ham succeed with such a hack. And the
mobo is definitely more efficient on a softrock 6.5
than with a UHFSDR (mixer performances… I find the
tayloe mixer more efficient on low band and Dave's
dual diode mixer better on U/Vhf bands)
My

“motorola” amp is certainly heavily copyrighted, I honestly cannot publish its schematic on the web. But using the same “spirit and inspiration” don’t seems impossible to me. I must admit, I definitely don’t have the knowledge and the skill to do it myself
73
and season’s greetings
Marc
f6itu

1699. RE: [UHFSDR] How many watts have this Transceiver ? [1 Attachment]

Yahoo group: UHFSDR
Date: 2014-01-07 22:45:19 UTC
From: MIKE DURKIN
Topic: 1690 Message: 1699

thats a nice find .. any part numbers or a way to identify it -- and search on the net for one ...!!!

To: UHFSDR@yahoogroups.com
From: Marc.olanie@decision.fr
Date: Mon, 6 Jan 2014 09:45:16 +0100
Subject: RE: [UHFSDR] How many watts have this Transceiver ? [1 Attachment]

Hi@Mike >wish there was an 5w amp that covered 160m up to 700MHz !!!:-))) got one ! (average 2 watts to 5 watts depending on the frequency)In fact, I had the chance to find (ham flea marked are full of treasures) a professional linear amp covering from 3MHz to 1300 MHz. It is based on a Motorola hybrid amp, one is acting as a driver, the two others are running parallel 36 dbm on 2 meters and 70 cm and 33 dbm on 1200 is quite enough for a field UHFSDR. The only drawback is the filtering. The design of the bpf is not trivial, I'm still working on it@ AlanThe mobokit works from 1 to 30 MHz only… and connecting it to a UHFSDR is not for the faint of heart. As far as I know, only one ham succeed with such a hack. And the mobo is definitely more efficient on a softrock 6.5 than with a UHFSDR (mixer performances… I find the tayloe mixer more efficient on low band and Dave's dual diode mixer better on U/Vhf bands)My "motorola" amp is certainly heavily copyrighted, I honestly cannot publish its schematic on the web. But using the same "spirit and inspiration" don't seems impossible to me. I must admit, I definitely don't have the knowledge and the skill to do it myself73 and season's greetingsMarc f6itu

1700. Re: [UHFSDR] How many watts have this Transceiver ?

Yahoo group: UHFSDR
Date: 2014-01-07 22:47:33 UTC
From: Dave
Topic: 1690 Message: 1700

Mike:
Google FT-857 service manual. Service manuals for all three can be
downloaded from the internet.

Dave - WB6DHW
<http://wb6dhw.com>

On 1/7/2014 2:33 PM, MIKE DURKIN wrote:
>
> cool .... now to find a schematic!!!!! (pcb would be nice too)
>
> ---
> To: UHFSDR@yahoogroups.com
> From: dave@...
> Date: Mon, 6 Jan 2014 00:53:23 -0800
> Subject: Re: [UHFSDR] How many watts have this Transceiver ?
>
>
> The final amp in the FT-817 and the driver amp in the FT-857 and
> Ft-897 share a 5W circuit and are one amp covering from 160M thru 70cm
> producing 5W.
>
> Dave - WB6DHW
> <http://wb6dhw.com> <http://wb6dhw.com>
>
> On 1/6/2014 12:45 AM, Marc OLANIE wrote:
>
> Hi
>
> @Mike
>
> >wish there was an 5w amp that covered 160m up to 700MHz !!!
>
> :-))) got one ! (average 2 watts to 5 watts depending on the
> frequency)
>
> In fact, I had the chance to find (ham flea marked are full of
> treasures) a professional linear amp covering from 3MHz to 1300
> MHz. It is based on a Motorola hybrid amp, one is acting as a
> driver, the two others are running parallel
>
> 36 dbm on 2 meters and 70 cm and 33 dbm on 1200 is quite enough
> for a field UHFSDR. The only drawback is the filtering. The design
> of the bpf is not trivial, I?m still working on it
>

> @ Alan
>
> The mobokit works from 1 to 30 MHz only? and connecting it to a
> UHFSDR is not for the faint of heart. As far as I know, only one
> ham succeed with such a hack. And the mobo is definitely more
> efficient on a softrock 6.5 than with a UHFSDR (mixer
> performances? I find the tayloe mixer more efficient on low band
> and Dave?s dual diode mixer better on U/Vhf bands)
>
> My ?motorola? amp is certainly heavily copyrighted, I honestly
> cannot publish its schematic on the web. But using the same
> ?spirit and inspiration? don?t seems impossible to me. I must
> admit, I definitely don?t have the knowledge and the skill to do
> it myself
>
> 73 and season?s greetings
>
> Marc f6itu
>
>
>
>
> __,___

1701. Re: [UHFSDR] Bandpass board for UHFSDR

Yahoo group: UHFSDR
Date: 2014-01-10 16:51:39 UTC
From: <edfinn11@...>
Topic: 1667 Message: 1701

i am almost there... I used eagle and built schematic symbols and footprints for the 2 section (pole) temwell helical filter that I got from DownEast Microwave. I also use split IF for my microwave transverters, so I put on the same rf switch as on the main board to supply IN/OUT sma ports for the IF.

I got stalled over the holiday, but the layout is mostly done. The board will be very small, so I will fit as many as I can onto my proto board. I may not get back to this until after the January VHF contest, since I have to power the stuff up and make sure all 10 bands are working properly.

Ed

1702. Re: [UHFSDR] Bandpass board for UHFSDR

Yahoo group: UHFSDR
Date: 2014-01-10 16:54:24 UTC
From: <edfinn11@...>
Topic: 1667 Message: 1702

Jim,

I haven't looked at the raw spectrum out of the uhfsdr while transmitting on 2m yet. Common practice is to have at least a low pass filter to cut higher order harmonics.

When I fire this up next, I'll have a look.

Ed

1703. Spurious Sidebands

Yahoo group: UHFSDR
Date: 2014-01-19 00:08:22 UTC
From: <artus1947@...>
Topic: 1703 Message: 1703

I have recently finished a measurement receiver following the concept by Wes Hayward in EMRFD. I have been looking at the sidebands of my UHFSDR in an SDR2GO. I see fairly significant signal degradation above 8 dBm output. I can drive the unit up to almost 18 dBm but it is very "dirty." I started with 2-tone ssb signals but switched over to cw testing. I am posting a couple screen captures in the photos section at 8 dBm and 17 dBm. I have 2 units and will be using them in the SRD2GO and in a STM32-SDR. I wonder if others have observed this with their units? Its not really an operational issue since I will be following both units with amplification and can keep the drive level to below 8 dBm.

73,
Jack (W0FNQ)

1704. RE : [UHFSDR] Spurious Sidebands

Yahoo group: UHFSDR
Date: 2014-01-19 08:15:42 UTC
From: Marc OLANIE
Topic: 1704 Message: 1704
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Jack

Tnks for info

Did you kept your 2-tone sepctrum capture @8 and 18 dBm ? there is so few document in the "pictures" folder that it could'nt be a bad idea.

As far as I remember, the value of the decoupling caps and filtering inductance located on the MMIC power line had a great influence in the frequency response of the amplifier. Could it also play some role concerning the spectral purity? And did you try to repeat the test above 430 MHz ?

tnks agn

Marc f6itu
A good working kernel is not supposed to crash unless it says "please"
(traduction : Da Power, Fantudjûû ! RuleZ Tartiflette !)

-------- Message d'origine--------
De: UHFSDR@...m de la part de artus1947@...
Date: dim. 19/01/2014 01:08
À: UHFSDR@yahoogroups.com
Objet : [UHFSDR] Spurious Sidebands

I have recently finished a measurement receiver following the concept by Wes Hayward in EMRFD. I have been looking at the sidebands of my UHFSDR in an SDR2GO. I see fairly significant signal degradation above 8 dBm output. I can drive the unit up to almost 18 dBm but it is very "dirty." I started with 2-tone ssb signals but switched over to cw testing. I am posting a couple screen captures in the photos section at 8 dBm and 17 dBm. I have 2 units and will be using them in the SRD2GO and in a STM32-SDR. I wonder if others have observed this with their units? Its not really an operational issue since I will be following both units with amplification and can keep the drive level to below 8 dBm.

73,
Jack (W0FNQ)

1705. HMC544

Yahoo group: UHFSDR
Date: 2014-01-26 05:04:19 UTC
From: MIKE DURKIN
Topic: 1705 Message: 1705

hay .. can the HMC544 really take 8W??

that doesnt seem right ...

Mike KC7NOA

1706. Re: [UHFSDR] HMC544

Yahoo group: UHFSDR
Date: 2014-01-26 05:16:25 UTC
From: Steve Wright
Topic: 1705 Message: 1706

Docs say 2w
http://www.hittite.com/products/view.html/view/HMC544

On Sun, Jan 26, 2014 at 6:04 PM, MIKE DURKIN <Patriot121@...> wrote:

>
>
> hay .. can the HMC544 really take 8W??
>
> that doesnt seem right ...
>
> Mike KC7NOA
>
>
>

--
Meshnetworks - Rangitaiki Plains Rural Broadband Internet Providers
+64 21 040 5067

1707. RE: [UHFSDR] HMC544

Yahoo group: UHFSDR
Date: 2014-01-26 05:30:55 UTC
From: MIKE DURKIN
Topic: 1705 Message: 1707

ok .. i had seen

High Input P1dB: +39 dBm (8W)
from
http://www.cpcstech.com/dbm-to-watt-conversion-information.htm

but i dont know what P1dB means ...

looks like i might mod my UHFSDR with a CA2818C .... for 1W out ...

To: UHFSDR@yahoogroups.com
From: stevewrightnz@...
Date: Sun, 26 Jan 2014 18:16:25 +1300
Subject: Re: [UHFSDR] HMC544

Docs say 2w http://www.hittite.com/products/view.html/view/HMC544

On Sun, Jan 26, 2014 at 6:04 PM, MIKE DURKIN <Patriot121@...> wrote:

hay .. can the HMC544 really take 8W??

that doesnt seem right ...

Mike KC7NOA

--
Meshnetworks - Rangitaiki Plains Rural Broadband Internet Providers+64 21 040 5067

1708. Re: [UHFSDR] HMC544

Yahoo group: UHFSDR
Date: 2014-01-26 08:17:56 UTC
From: Dave
Topic: 1705 Message: 1708

Mike
Haven't tried it with anything other than the mmic's on the UHFSDR board. The HMC544 data sheet shows that with a 5V control voltage the 1dB compression point is a minimum of 36dBm(3 watts) and typically 39dBm.

Dave - WB6DHW
<http://wb6dhw.com>

On 1/25/2014 9:04 PM, MIKE DURKIN wrote:
>
> hay .. can the HMC544 really take 8W??
>
> that doesnt seem right ...
>
> Mike KC7NOA
>

1709. Re: [UHFSDR] HMC544

Yahoo group: UHFSDR
Date: 2014-01-26 17:12:10 UTC
From: Jean-Paul Louis
Topic: 1705 Message: 1709

Dave and Mike,

You want to stay below the minimum compression point because the linearity of your signal will be compromised (1 dB compression), and that will generate spurious. But for one watt, it will be fine. Hitite is good for large quantities, but Digikey will gouge you in small qty ($4.97 for Qty=10).
Check Peregrine semiconductors, they have great switches that maybe less expensive.

Just my two cents,
Jean-Paul (AC9GH)

On Jan 26, 2014, at 3:17 AM, Dave <dave@...> wrote:

>
> Mike
> Haven't tried it with anything other than the mmic's on the UHFSDR board. The HMC544 data sheet shows that with a 5V control voltage the 1dB compression point is a minimum of 36dBm(3 watts) and typically 39dBm.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 1/25/2014 9:04 PM, MIKE DURKIN wrote:
>>
>>
>> hay .. can the HMC544 really take 8W??
>>
>> that doesnt seem right ...
>>
>> Mike KC7NOA
>>
>
>
>

1710. RE: [UHFSDR] HMC544

Yahoo group: UHFSDR
Date: 2014-01-26 20:04:56 UTC
From: MIKE DURKIN
Topic: 1705 Message: 1710

Ok ... looks like im bumping along in the right direction ....

there seems to be a need to have a relay bd made for separating hf(to6M) 2M, 1.25M and 70CM .... for sending signal to a respective amp ...

and i guess the HMC544 would be fine for that .. at 1W....

I have a few ca2818c's coming .... and a few step up regulators to power them ...

CA2818C was 10$ and the 15-36V regulators were 4$ .... well see how this works out.

Least it will curb me from thinking on how i would mod my AQRP 20W amp for 100mw drive !!!

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: louijp@...
Date: Sun, 26 Jan 2014 12:12:10 -0500
Subject: Re: [UHFSDR] HMC544

Dave and Mike,

You want to stay below the minimum compression point because the linearity of your signal will be compromised (1 dB compression), and that will generate spurious. But for one watt, it will be fine. Hitite is good for large quantities, but Digikey will gouge you in small qty ($4.97 for Qty=10).Check Peregrine semiconductors, they have great switches that maybe less expensive.
Just my two cents,Jean-Paul (AC9GH)
On Jan 26, 2014, at 3:17 AM, Dave <dave@...> wrote:Mike
Haven't tried it with anything other than the mmic's on the UHFSDR board. The HMC544 data sheet shows that with a 5V control voltage the 1dB compression point is a minimum of 36dBm(3 watts) and typically 39dBm.

Dave - WB6DHW
<http://wb6dhw.com>

On 1/25/2014 9:04 PM, MIKE DURKIN wrote:
hay .. can the HMC544 really take 8W??

that doesnt seem right ...

Mike KC7NOA

1711. Re: [UHFSDR] HMC544

Yahoo group: UHFSDR
Date: 2014-01-26 20:18:42 UTC
From: Jim Sanford
Topic: 1705 Message: 1711

Pls DO share your results!
73,
Jim
wb4gcs@...

On 1/26/2014 3:04 PM, MIKE DURKIN wrote:
>
> Ok ... looks like im bumping along in the right direction ....
>
> there seems to be a need to have a relay bd made for separating
> hf(to6M) 2M, 1.25M and 70CM .... for sending signal to a respective
> amp ...
>
> and i guess the HMC544 would be fine for that .. at 1W....
>
> I have a few ca2818c's coming .... and a few step up regulators to
> power them ...
>
> CA2818C was 10$ and the 15-36V regulators were 4$ .... well see how
> this works out.
>
> Least it will curb me from thinking on how i would mod my AQRP 20W amp
> for 100mw drive !!!
>
> Mike KC7NOA
>
> ---
> To: UHFSDR@yahoogroups.com
> From: louijp@...
> Date: Sun, 26 Jan 2014 12:12:10 -0500
> Subject: Re: [UHFSDR] HMC544
>
> Dave and Mike,
>
> You want to stay below the minimum compression point because the
> linearity of your signal will be compromised (1 dB compression), and
> that will generate spurious. But for one watt, it will be fine. Hitite
> is good for large quantities, but Digikey will gouge you in small qty
> ($4.97 for Qty=10).
> Check Peregrine semiconductors, they have great switches that maybe
> less expensive.
>
> Just my two cents,
> Jean-Paul (AC9GH)
>

> On Jan 26, 2014, at 3:17 AM, Dave <dave@...
> <mailto:dave@...>> wrote:
>
>
> Mike
> Haven't tried it with anything other than the mmic's on the
> UHFSDR board. The HMC544 data sheet shows that with a 5V control
> voltage the 1dB compression point is a minimum of 36dBm(3 watts)
> and typically 39dBm.
>
> Dave - WB6DHW
> <http://wb6dhw.com> <http://wb6dhw.com/>
>
> On 1/25/2014 9:04 PM, MIKE DURKIN wrote:
>
>
> hay .. can the HMC544 really take 8W??
>
> that doesnt seem right ...
>
> Mike KC7NOA
>
>
>
>
>
>

This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

1712. isolated npn power

Yahoo group: UHFSDR
Date: 2014-02-06 00:34:06 UTC
From: MIKE DURKIN
Topic: 1712 Message: 1712

Hey every one .. sorry for the bandwidth ...

I don't have a selection guide .. so i thought id ask here ...

Does anyone know of a darlington NPN that does not have the case electrically tied to the pins? -- all plastic that can handle 5A ??

Mike KC7NOA

1713. RE: [AQRP] Next pass on a manual BPF/LPF Switch with Relay Rx/Tx

Yahoo group: UHFSDR
Date: 2014-02-09 17:40:37 UTC
From: MIKE DURKIN
Topic: 1713 Message: 1713

Ok .. im back to this idea again ...

basically because the fst3251 cant handle 1W ... which means i cant put the block amp after the UHFSDR's final stage (100mW) ...

I need a design that basicaly has a SPDT for Rx/Tx control and have a few more (SMD??) relays for HF (AQRP 20W PA) VHF & UHF path out ...

There's a good chance that anyone that has a UHFSDR would want one in the future ...

Ill also forward this to Dave ... but since AQRP sends out for boards to be made more often than dave(wb6dhw) ... im just trying to get some one to add something to a panel ...

Mike KC7NOA

From: patriot121@msn.com
To: windy10605@juno.com
Subject: RE: [AQRP] Next pass on a manual BPF/LPF Switch with Relay Rx/Tx
Date: Sun, 26 Jan 2014 18:27:23 -0800

10$$ alot?

I guess i dont need a bd ... the relay on my UHFSDR is supposed to handle 2W ...

HMC544 ...

i think i can just remove a cap and use coax in/out of the amp .... and switch the regulator.

From: windy10605@juno.com
Date: Mon, 27 Jan 2014 01:41:25 +0000
To: patriot121@msn.com
Subject: RE: [AQRP] Next pass on a manual BPF/LPF Switch with Relay Rx/Tx

OK, a block amplifier. I found some CA2832C parts on ebay last year and Ben and I each bought one. Great little broadband Amp but the price recently shot up. Easy to use. These were used in a lot of 2m commercial gear in the 70's.73 Kees K5BCQ
---------- Original Message ----------
From: MIKE DURKIN <patriot121@msn.com>
To: Kees & Sandy <windy10605@juno.com>
Subject: RE: [AQRP] Next pass on a manual BPF/LPF Switch with Relay Rx/Tx
Date: Sun, 26 Jan 2014 17:18:04 -0800

Its a class A 1W amp thats covers 300Khz to 400Mhz ...

http://www.americanmicrosemi.com/products/newitem/CA2818C.pdf

From: windy10605@juno.com
Date: Mon, 27 Jan 2014 01:12:05 +0000

To: Patriot121@msn.com
Subject: RE: [AQRP] Next pass on a manual BPF/LPF Switch with Relay Rx/Tx

Mike, What is a CA2818C ? is that a decoder IC ? 73 Kees K5BCQ

---------- Original Message ----------
From: MIKE DURKIN <Patriot121@msn.com>
To: AQRP AQRP <aqrp@yahoogroups.com>
Subject: RE: [AQRP] Next pass on a manual BPF/LPF Switch with Relay Rx/Tx
Date: Sat, 25 Jan 2014 20:49:23 -0800

ever take requests for board designs that are not part of AQRP??

I found some CA2818C that id like to use with my UHFSDR ... but need a pcb for Rx/Tx switching ....
(I havent found one else where yet)

Mike KC7NOA
To: aqrp@yahoogroups.com
From: windy10605@juno.com
Date: Sun, 26 Jan 2014 02:16:11 +0000
Subject: [AQRP] Next pass on a manual BPF/LPF Switch with Relay Rx/Tx

We've been at it again and I just sent of another board order to Advanced Circuits. This one is a QRP manual switch variation. The reasoning behind "manual" for THIS one is that it's small, simple, inexpensive, no power, and geared toward Tx. It's assumed that the Rx probably has much wider frequency range and employs a broadband automatically switched BPF assembly like the one offered by Dave, WB6DHW.....which can easily be controlled by the 3 band select lines from a Si570 Controller. It consists of a 2.5" x 3.5" host board with up to 6 individual 2.5" x 0.6" BPF filters or LPF filters. It has multiple coax attach methods on the board: Coax cable directly, BNC connectors, or SMA connectors.....your choice. Signal leads are wide and kept as short as possible with all wiring over a solid ground plane to minimize transmission line problems on the board. The 6 bands on the switch are plug-in and can be any 6 BPF or LPF filters. The assumption being that for Tx you would probably want LPFs. However, if you want to use pluggable BPFs for both Receive and Transmit, that's OK too. The board can be configured so that the onboard Tx/Rx relay can be connected to either end of the symetrical plug-in filters. In Mode 1 the relay armature switches the Antenna between the 6 plug-in filters and the Receive input (assumes the receiver has it's own BPFs). In Mode 2 the 6 pluggable filters (they can be LPF or BPF) are connected to the Antenna at one end and the armature of the Tx/Rx relay at the other end. The relay selects between Receive and Transmit/Amplifier and the filters are inline to the antenna for both. The relay is powered by 12V or 5 V and controlled by external PTT input. Aside: Some who want to use just one plug-in filter at a time and really minimize wiring can also do do so. Like Charley's Mini-HRO setup.....then you don't need the switch at all, but you need an assortment of plug-ins. The little 2.5" x 0.6" BPF/LPF filter form factor is not a "standard" yet but they seem to fit in well with the size QRP SDR units around here (AQRP). I measured a couple of LPFs for 40m and 20m on my MiniVDA-Pro and the Transmission Loss was <0.1dB with a very respectable Return Loss so the SWR is low. Of course, all these maeasurements are into 50 ohms. BPF data looks good too but I haven't built them up and tested them for all the bands. As an aside, I have a LOT of BPF/LPF boards and Amplifier boards around here..... some will be coasters most will not. 73 Kees K5BCQ

1714. ADT1-1 source

Yahoo group: UHFSDR
Date: 2014-03-14 13:40:38 UTC
From: <KE5SSH@...>
Topic: 1714 Message: 1714

Trying to obtain the RF transformer. Minicircuits is now requiring a minimum order of 10. Is there any other source to purchase one? Can I wind my own transformer on a binocular core?

John - ke5ssh

1715. RE: [UHFSDR] ADT1-1 source

Yahoo group: UHFSDR
Date: 2014-03-14 13:51:14 UTC
From: Marc OLANIE
Topic: 1714 Message: 1715

Hi John

Funkamateur, the german Ham magazine, has an e-shop where you can find wideband transformers

http://www.box73.de/index.php?cPath=82_138

Prices are a little bit higher than MCL's, but, as a non-European citizen, you can ask for a tax refund (called VAT in Europe, 19% of the QSJ)

73'

Marc f6itu

De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] De la part de KE5SSH@gmail.com
Envoyé : vendredi 14 mars 2014 14:41
À : UHFSDR@yahoogroups.com
Objet : [UHFSDR] ADT1-1 source

Trying to obtain the RF transformer. Minicircuits is now requiring a minimum order of 10. Is there any other source to purchase one? Can I wind my own transformer on a binocular core?

John - ke5ssh

1716. Re: [UHFSDR] ADT1-1 source

Yahoo group: UHFSDR
Date: 2014-03-14 14:36:59 UTC
From: Milt Cram
Topic: 1714 Message: 1716

On 3/14/2014 8:40 AM, KE5SSH@... wrote:
>
> Trying to obtain the RF transformer. Minicircuits is now requiring a
> minimum order of 10. Is there any other source to purchase one? Can I
> wind my own transformer on a binocular core?
>
> John - ke5ssh
>
>
Hi John,

My UHFSDR has a Bel S554 3184-00 for T1. This transformer is spec'd for
250kHz to 340MHz.

I'm in the process of assembling the board, so I can't vouch for the
performance.

Milt,
W8NUE

1717. Fw: Re: [UHFSDR] ADT1-1 source

Yahoo group: UHFSDR
Date: 2014-03-14 15:30:41 UTC
From: Kees & Sandy
Topic: 1717 Message: 1717
Attachments: 2 described; binary payloads are missing from this source WARC

```
[ Attachment content not displayed ]
```

1718. RE: [UHFSDR] ADT1-1 source

Yahoo group: UHFSDR
Date: 2014-03-14 15:59:24 UTC
From: MIKE DURKIN
Topic: 1717 Message: 1718

Any measurable loss in the Bell?

To: UHFSDR@yahoogroups.com
From: windy10605@...
Date: Fri, 14 Mar 2014 15:30:41 +0000
Subject: Fw: Re: [UHFSDR] ADT1-1 source

Yes, Minicircuits is "a little different" from Mouser in their operations and they definitely prefer not to sell one or two of anything. I would not try to wind one because the core size and material is not readily obtainable (I have dissected one). What I use for Dave's BPF kit (I supply all the small parts) is a 1:1 Bell transformer (no CT) which works very well and has been measured in a professional lab to perform as well or better than the T1-1T all the way to 500MHz. The T1-1T and Bell are pin in hole parts (gull-wing for smt). You have to fold the leads under the part to solder it to the footprint on Dave's BPF board. I have those available for $1 each plus postage. I also have the Minicircuits TC1-1TG parts (used on the Si570 Controller kits) for $2 each plus postage. 73 Kees K5BCQ

---------- Forwarded Message ----------
From: Milt Cram <w8nue@...>
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] ADT1-1 source
Date: Fri, 14 Mar 2014 09:36:59 -0500

On 3/14/2014 8:40 AM, KE5SSH@... wrote: Trying to obtain the RF transformer. Minicircuits is now requiring a minimum order of 10. Is there any other source to purchase one? Can I wind my own transformer on a binocular core?

John - ke5ssh
Hi John,

My UHFSDR has a Bel S554 3184-00 for T1. This transformer is spec'd for 250kHz to 340MHz.

I'm in the process of assembling the board, so I can't vouch for the performance.

Milt,
W8NUE

1719. RE: [UHFSDR] ADT1-1 source

Yahoo group: UHFSDR
Date: 2014-03-14 17:28:05 UTC
From: Kees & Sandy
Topic: 1714 Message: 1719
Attachments: 2 described; binary payloads are missing from this source WARC

```
[ Attachment content not displayed ]
```

1720. RE: [UHFSDR] ADT1-1 source

Yahoo group: UHFSDR
Date: 2014-03-14 18:37:32 UTC
From: MIKE DURKIN
Topic: 1714 Message: 1720

odd .. but sure ..

Subject: Fwd: [UHFSDR] ADT1-1 source
From: ian@sdrsharp.com
Date: Fri, 14 Mar 2014 18:28:15 +0000
To: patriot121@...

Mike
Could you do me a favour and forward this to John and the group? I just get bounces from both... Stupid Yahoo.
CheersIan

From: Ian <ian@...>
Date: 14 March 2014 18:20:39 GMT
To: "UHFSDR@yahoogroups.com" <UHFSDR@yahoogroups.com>
Subject: Re: [UHFSDR] ADT1-1 source

John,
If you can wait for regular mail from Scotland, send me your address privately and I'll mail you a few free of charge.
I have literally a bag full of them here.

Regards,Ian MM6DOS.

On 14 Mar 2014, at 13:40, <KE5SSH@...> wrote:

Trying to obtain the RF transformer. Minicircuits is now requiring a minimum order of 10. Is there any other source to purchase one? Can I wind my own transformer on a binocular core?

John - ke5ssh

1721. Re: [UHFSDR] ADT1-1 source

Yahoo group: UHFSDR
Date: 2014-03-14 19:54:16 UTC
From: Ian
Topic: 1714 Message: 1721

John,

If you can wait for regular mail from Scotland, send me your address privately and I'll mail you a few free of charge.

I have literally a bag full of them here.

I know the hassle trying to obtain small quantities of these...

Regards,
Ian MM6DOS.

> On 14 Mar 2014, at 13:40, <KE5SSH@gmail.com> wrote:
>
> Trying to obtain the RF transformer. Minicircuits is now requiring a minimum order of 10. Is there any other source to purchase one? Can I wind my own transformer on a binocular core?
>
> John - ke5ssh
>
>

1722. Re: [UHFSDR] ADT1-1 source

Yahoo group: UHFSDR
Date: 2014-03-15 00:13:39 UTC
From: John Williams
Topic: 1714 Message: 1722

Ian,

Ordered one locally for $1.00. Thanks for the offer...

John
On 3/14/2014 2:54 PM, Ian wrote:
> John,
>
> If you can wait for regular mail from Scotland, send me your address
> privately and I'll mail you a few free of charge.
>
> I have literally a bag full of them here.
>
> I know the hassle trying to obtain small quantities of these...
>
>
> Regards,
> Ian MM6DOS.
>
> On 14 Mar 2014, at 13:40, <KE5SSH@... <mailto:KE5SSH@...>>
> wrote:
>
>> Trying to obtain the RF transformer. Minicircuits is now requiring a
>> minimum order of 10. Is there any other source to purchase one? Can I
>> wind my own transformer on a binocular core?
>>
>> John - ke5ssh
>>
>

--

John Williams

KE5SSH - ham since 2007
WQKA523 - GMRS for family use on the farm

1723. Re: ADT1-1 source

Yahoo group: UHFSDR
Date: 2014-03-19 19:44:20 UTC
From: <yl2qn.andy@...>
Topic: 1714 Message: 1723

Hi, Some time ago I'm ordered transformers and smd inductance's from coilcraft.com .
Delivery by Royal Mail has adequate price instead UPS/DHL. Free samples is also available.

Regards,
Andy - YL2QN

1724. Thinking of selling my UHFSDR2GO

Yahoo group: UHFSDR
Date: 2014-03-24 05:27:31 UTC
From: MIKE DURKIN
Topic: 1724 Message: 1724

So i was thinking i might my UHFSDR and SDR2GO combo ...

It has the 1.9 firmware

Iv been looking to put together a 1W @ (hf through the top end of the Si570 class A) amp ... i need to assemble the parts i have and give it a test ...

If it works out i might sell it with it ..

This is just a feeler im putting out ... to see if any one might be interested or might be in the future ..

Its assembled right now in the case of a Atlas350XL ... id be selling the boards and related hardware only .. the Atlas is rough and would stay with me.

I also have an assembled(by me) bandpass filter of Dave's(WB6DHW) -- its still not tested yet --

Mike KC7NOA

1725. Re: [UHFSDR] Thinking of selling my UHFSDR2GO

Yahoo group: UHFSDR
Date: 2014-03-30 17:10:23 UTC
From: Jim Sanford
Topic: 1724 Message: 1725

Mike:
I'm assuming you would want to sell the package. If not, I might be interested in the SDR2GO. (Already have 2 UHFSDRs)
73,
Jim
wb4gcs@...

On 3/24/2014 1:27 AM, MIKE DURKIN wrote:
>
> So i was thinking i might my UHFSDR and SDR2GO combo ...
>
> It has the 1.9 firmware
>
> Iv been looking to put together a 1W @ (hf through the top end of the
> Si570 class A) amp ... i need to assemble the parts i have and give it
> a test ...
>
> If it works out i might sell it with it ..
>
> This is just a feeler im putting out ... to see if any one might be
> interested or might be in the future ..
>
> Its assembled right now in the case of a Atlas350XL ... id be selling
> the boards and related hardware only .. the Atlas is rough and would
> stay with me.
>
> I also have an assembled(by me) bandpass filter of Dave's(WB6DHW) --
> its still not tested yet --
>
> Mike KC7NOA
>

This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

1726. Is there a way to download for offline reading the ~300 messages posted in uhfsdr?

Yahoo group: UHFSDR
Date: 2014-04-10 00:27:11 UTC
From: David Feldman
Topic: 1726 Message: 1726

I am returning to my long-shelved UHFSDR project. I had purchased PC board and a few related parts some years ago, and want to catch up on the project's history and discussions. The "new and improved" yahoo group format is awful beyond words, so if there is someone that knows of a way I can just download the messages in chronological order, that would give me good reading material and avoid me asking questions for which there has already been discussion.

Thanks,

73 Dave WB0GAZ wb0gaz@...

1727. RE: [UHFSDR] Thinking of selling my UHFSDR2GO

Yahoo group: UHFSDR
Date: 2014-04-15 19:44:18 UTC
From: MIKE DURKIN
Topic: 1724 Message: 1727

i cant remember if i responded yet .. but yea .. id sell the sdr2go separate ...

Ill try to get a good close up picture soon ...
and a video of it working so that you know ...

I dont have the keyboard connector on the board ... and i used different encoders than what was part of the kit .... i might still have the push button integrated ones still .... im just not sure. Its been a while since i built it.

Iv been having some more heart problems lately and had a nuke test done today (fun being radio active -- not) .... ill know if ill have work done for sure in 2 days ...
Just sayin that im in no rush ...

Mike KC7NOA

To: UHFSDR@yahoogroups.com
From: wb4gcs@amsat.org
Date: Sun, 30 Mar 2014 13:10:23 -0400
Subject: Re: [UHFSDR] Thinking of selling my UHFSDR2GO

Mike:

I'm assuming you would want to sell the package. If not, I might be
interested in the SDR2GO. (Already have 2 UHFSDRs)

73,

Jim

wb4gcs@...

On 3/24/2014 1:27 AM, MIKE DURKIN
wrote:

So i was thinking i might my UHFSDR and
SDR2GO combo ...

It has the 1.9 firmware

Iv been looking to put together a 1W @ (hf through the top
end of the Si570 class A) amp ... i need to assemble the
parts i have and give it a test ...

If it works out i might sell it with it ..

This is just a feeler im putting out ... to see if any one
might be interested or might be in the future ..

Its assembled right now in the case of a Atlas350XL ... id
be selling the boards and related hardware only .. the
Atlas is rough and would stay with me.

I also have an assembled(by me) bandpass filter of
Dave's(WB6DHW) -- its still not tested yet --

Mike KC7NOA

This email is free from viruses and malware because avast! Antivirus protection is active.

1728. RE: [UHFSDR] Thinking of selling my UHFSDR2GO

Yahoo group: UHFSDR
Date: 2014-04-15 19:44:41 UTC
From: MIKE DURKIN
Topic: 1724 Message: 1728

To: UHFSDR@yahoogroups.com
From: wb4gcs@...
Date: Sun, 30 Mar 2014 13:10:23 -0400
Subject: Re: [UHFSDR] Thinking of selling my UHFSDR2GO

Mike:

I'm assuming you would want to sell the package. If not, I might be interested in the SDR2GO. (Already have 2 UHFSDRs)

73,

Jim

wb4gcs@amsat.org

On 3/24/2014 1:27 AM, MIKE DURKIN
wrote:

So i was thinking i might my UHFSDR and
SDR2GO combo ...

It has the 1.9 firmware

Iv been looking to put together a 1W @ (hf through the top
end of the Si570 class A) amp ... i need to assemble the
parts i have and give it a test ...

If it works out i might sell it with it ..

This is just a feeler im putting out ... to see if any one
might be interested or might be in the future ..

Its assembled right now in the case of a Atlas350XL ... id
be selling the boards and related hardware only .. the
Atlas is rough and would stay with me.

I also have an assembled(by me) bandpass filter of
Dave's(WB6DHW) -- its still not tested yet --

Mike KC7NOA

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1729. feasibility

Yahoo group: UHFSDR
Date: 2014-04-21 18:24:25 UTC
From: MIKE DURKIN
Topic: 1729 Message: 1729

Im wondering about the feasibility of using a SDR2GO with a QRP2000 connected to a UHFSDR ...

I do believe that both do not continually send commands to the Si570 ... i could be wrong.

To protect each controller from the other ... would only blocking signal diodes work ? and control lines wired in parallel ?

Mike KC7NOA

1730. FS UHFSDR

Yahoo group: UHFSDR
Date: 2014-05-09 21:39:48 UTC
From: gus.stuart@...
Topic: 1730 Message: 1730

I have an unbuilt UHDSDR kit for sale. It was purchased in July 2012, and the board says UHFSDR_r1a. Please contact me off list if interested.

73,
Gus, N1CCW

1731. Re: [UHFSDR] FS UHFSDR

Yahoo group: UHFSDR
Date: 2014-05-10 15:36:52 UTC
From: Jim Sanford
Topic: 1730 Message: 1731

Gus:
I might be. How much are you looking for?
Thanks & 73,
Jim
wb4gcs@...

On 5/9/2014 5:39 PM, gus.stuart@... [UHFSDR] wrote:
>
> I have an unbuilt UHDSDR kit for sale. It was purchased in July 2012,
> and the board says UHFSDR_r1a. Please contact me off list if interested.
>
>
> 73,
>
> Gus, N1CCW
>
>

This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

1732. Re: [UHFSDR] FS UHFSDR

Yahoo group: UHFSDR
Date: 2014-05-10 16:00:13 UTC
From: Jim Sanford
Topic: 1730 Message: 1732

Sorry, guys, I thought I cut & Pasted the email address to contact off
list!) but somehow it went to the list anyway!

My apologies.

73,
Jim
wb4gcs@...

On 5/10/2014 11:36 AM, Jim Sanford wb4gcs@... [UHFSDR] wrote:
>
> Gus:
> I might be. How much are you looking for?
> Thanks & 73,
> Jim
> wb4gcs@...
>
>
> On 5/9/2014 5:39 PM, gus.stuart@... [UHFSDR] wrote:
>>
>> I have an unbuilt UHDSDR kit for sale. It was purchased in July
>> 2012, and the board says UHFSDR_r1a. Please contact me off list if
>> interested.
>>
>>
>> 73,
>>
>> Gus, N1CCW
>>
>
>
>
> ---
> <http://www.avast.com/>
>
> This email is free from viruses and malware because avast! Antivirus
> <http://www.avast.com/> protection is active.
>
>
>

This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

1733. UHFSDR installation

Yahoo group: UHFSDR
Date: 2014-05-10 16:41:39 UTC
From: Jim Sanford
Topic: 1733 Message: 1733

All:
Finally getting around to installing, but am having trouble finding software installation instructions.

I found the cable interface instructions on Dave's site. This requires Si570 Parallel Port Control software which comes up as si570.ext.
I found a DIFFERENT set of connections on the yahoo groups site, with the /suggestion/ that the PowerSDR-IQ will control UHFSDR directly.

Can anyone help unconfuse me?

I have one PC with a parallel port, so will use that for one of my UHFSDRs, the other will be used with a laptop and USB port. I found Dave's schematic for the USB interface, does anyone sell boards? Which software/drivers go with this interface?

Finally, what is the latest PowerSDR-IQ that people are using, and where can I get it? Lots of files in the pwoersdr-iq group, but not clear (to me) which to use with either the USB or LPT interface for UHFSDR.

Thanks & 73,
Jim
wb4gcs@...

This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

1734. Re: [UHFSDR] UHFSDR installation

Yahoo group: UHFSDR
Date: 2014-05-11 02:51:46 UTC
From: Dave
Topic: 1733 Message: 1734

Jim:
Si570.exe is a stand alone program that only programs the si570. It uses a different set of connections than PowerSDR-IQ. PowerSDR-IQ can control the si5 70 via the parallel

Dave - WB6DHW
<http://wb6dhw.com>

On 5/10/2014 9:41 AM, Jim Sanford wb4gcs@... [UHFSDR] wrote:
>
> All:
> Finally getting around to installing, but am having trouble finding
> software installation instructions.
>
> I found the cable interface instructions on Dave's site. This requires
> Si570 Parallel Port Control software which comes up as si570.ext.
> I found a DIFFERENT set of connections on the yahoo groups site, with
> the /suggestion/ that the PowerSDR-IQ will control UHFSDR directly.
>
> Can anyone help unconfuse me?
>
> I have one PC with a parallel port, so will use that for one of my
> UHFSDRs, the other will be used with a laptop and USB port. I found
> Dave's schematic for the USB interface, does anyone sell boards?
> Which software/drivers go with this interface?
>
> Finally, what is the latest PowerSDR-IQ that people are using, and
> where can I get it? Lots of files in the pwoersdr-iq group, but not
> clear (to me) which to use with either the USB or LPT interface for
> UHFSDR.
>
> Thanks & 73,
> Jim
> wb4gcs@...
>
>
>
>
>
>
>
> ---
> <http://www.avast.com/>
>
> This email is free from viruses and malware because avast! Antivirus

> <http://www.avast.com/> protection is active.
>
>
>

1735. Re: [UHFSDR] UHFSDR installation

Yahoo group: UHFSDR
Date: 2014-05-11 21:11:39 UTC
From: Jim Sanford
Topic: 1733 Message: 1735

Dave:
Thanks. With PowerSDR-IQ, do I use the connections on your web site?
Thanks,
Jim

On 5/10/2014 10:51 PM, Dave dave@... [UHFSDR] wrote:
>
> Jim:
> Si570.exe is a stand alone program that only programs the si570. It
> uses a different set of connections than PowerSDR-IQ. PowerSDR-IQ can
> control the si5 70 via the parallel
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 5/10/2014 9:41 AM, Jim Sanford wb4gcs@... [UHFSDR] wrote:
>>
>> All:
>> Finally getting around to installing, but am having trouble finding
>> software installation instructions.
>>
>> I found the cable interface instructions on Dave's site. This
>> requires Si570 Parallel Port Control software which comes up as
>> si570.ext.
>> I found a DIFFERENT set of connections on the yahoo groups site, with
>> the /suggestion/ that the PowerSDR-IQ will control UHFSDR directly.
>>
>> Can anyone help unconfuse me?
>>
>> I have one PC with a parallel port, so will use that for one of my
>> UHFSDRs, the other will be used with a laptop and USB port. I found
>> Dave's schematic for the USB interface, does anyone sell boards?
>> Which software/drivers go with this interface?
>>
>> Finally, what is the latest PowerSDR-IQ that people are using, and
>> where can I get it? Lots of files in the pwoersdr-iq group, but not
>> clear (to me) which to use with either the USB or LPT interface for
>> UHFSDR.
>>
>> Thanks & 73,
>> Jim
>> wb4gcs@...
>>
>>
>>

```
>>
>>
>>
>>
>> ----------------------------------------------------------------------
>> <http://www.avast.com/>
>>
>> This email is free from viruses and malware because avast! Antivirus
>> <http://www.avast.com/> protection is active.
>>
>>
>
>

---
This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com
```

1736. Re: [UHFSDR] UHFSDR installation

Yahoo group: UHFSDR
Date: 2014-05-12 07:03:58 UTC
From: Dave
Topic: 1733 Message: 1736

Jim:

The connections are on page 16 of the Assembly Manual.

Dave - WB6DHW
<http://wb6dhw.com>

On 5/11/2014 2:11 PM, Jim Sanford wb4gcs@... [UHFSDR] wrote:
>
> Dave:
> Thanks. With PowerSDR-IQ, do I use the connections on your web site?
> Thanks,
> Jim
>
> On 5/10/2014 10:51 PM, Dave dave@... [UHFSDR] wrote:
>>
>> Jim:
>> Si570.exe is a stand alone program that only programs the si570.
>> It uses a different set of connections than PowerSDR-IQ. PowerSDR-IQ
>> can control the si5 70 via the parallel
>>
>> Dave - WB6DHW
>> <http://wb6dhw.com>
>>
>> On 5/10/2014 9:41 AM, Jim Sanford wb4gcs@... [UHFSDR] wrote:
>>>
>>> All:
>>> Finally getting around to installing, but am having trouble finding
>>> software installation instructions.
>>>
>>> I found the cable interface instructions on Dave's site. This
>>> requires Si570 Parallel Port Control software which comes up as
>>> si570.ext.
>>> I found a DIFFERENT set of connections on the yahoo groups site,
>>> with the /suggestion/ that the PowerSDR-IQ will control UHFSDR directly.
>>>
>>> Can anyone help unconfuse me?
>>>
>>> I have one PC with a parallel port, so will use that for one of my
>>> UHFSDRs, the other will be used with a laptop and USB port. I found
>>> Dave's schematic for the USB interface, does anyone sell boards?
>>> Which software/drivers go with this interface?
>>>
>>> Finally, what is the latest PowerSDR-IQ that people are using, and
>>> where can I get it? Lots of files in the pwoersdr-iq group, but not
>>> clear (to me) which to use with either the USB or LPT interface for

>>> UHFSDR.
>>>
>>> Thanks & 73,
>>> Jim
>>> wb4gcs@...
>>>
>>>
>>>
>>>
>>>
>>>
>>>
>>> ----------
>>> <http://www.avast.com/>
>>>
>>> This email is free from viruses and malware because avast! Antivirus
>>> <http://www.avast.com/> protection is active.
>>>
>>>
>>
>
>
>
> ----------
> <http://www.avast.com/>
>
> This email is free from viruses and malware because avast! Antivirus
> <http://www.avast.com/> protection is active.
>
>
>

1737. what control program/spectrum display software is in use?

Yahoo group: UHFSDR
Date: 2014-05-18 23:19:07 UTC
From: Bill Beamon
Topic: 1737 Message: 1737

I have an SDR-IQ and several E4000 DTV dongles which I often use with my radios IF output for spectrum activity display usage. What is available here?

I don't want any software that steps on Moe Wheatley's toes (Spectravue)..

Thanks in advance..

Bill

KD4FNC

1738. RE: [UHFSDR] what control program/spectrum display software is in use?

Yahoo group: UHFSDR
Date: 2014-05-19 00:25:49 UTC
From: MIKE DURKIN
Topic: 1737 Message: 1738

I use Quisk and ghpsdr3-alex with Ubuntu 14.04

Mike KC7NOA

To: uhfsdr@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Sun, 18 May 2014 19:19:07 -0400
Subject: [UHFSDR] what control program/spectrum display software is in use?

I have an SDR-IQ and several E4000 DTV dongles which I often use
with my radios IF output for spectrum activity display usage. What is available
here?

I don't want any software that steps on Moe Wheatley's toes
(Spectravue)..

Thanks in advance..

Bill

KD4FNC

1739. RE: [UHFSDR] what control program/spectrum display software is in use?

Yahoo group: UHFSDR
Date: 2014-05-19 00:36:42 UTC
From: MIKE DURKIN
Topic: 1737 Message: 1739

Oh .. and a qrp2000 to control the UHFSDR ...

Mike KC7NOA

To: uhfsdr@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Sun, 18 May 2014 19:19:07 -0400
Subject: [UHFSDR] what control program/spectrum display software is in use?

I have an SDR-IQ and several E4000 DTV dongles which I often use
with my radios IF output for spectrum activity display usage. What is available
here?

I don't want any software that steps on Moe Wheatley's toes
(Spectravue)..

Thanks in advance..

Bill

KD4FNC

1740. Intros & questions

Yahoo group: UHFSDR
Date: 2014-05-19 13:13:46 UTC
From: p-thomas@...
Topic: 1740 Message: 1740

Hello all!

I've had an interest in SDR before I even knew what SDR "was" so I'm glad to see that there are so many options today. Of course the number of options is part of the issue too!

Along those lines, if anyone is aware of a good SDR book or presentation or something that discusses a design and why certain things are done the way they're done, I would love to hear about that. That's part of my interest here... self-education, etc.

As to UHFSDR specifically, I've got a decent HF rig but was looking around for options to get SSB on 2m and 440. Originally I was debating a transverter but since I also am interested in SDR, I saw this around, and couldn't pass it up. ;-)

Ultimately I would love to be able to attempt some satellite operation. I have a separate rx, but would like a transmitter that's halfway decent. Of course "halfway decent" is subjective... has anyone ever characterized the UHFSDR design objectively?

Usually I try to not post much until I read through the post history (case in point, I see at least one self-run sensitivity improvement thread which characterizes some of the enhancements)... but has there been ongoing effort to pull changes into the design? Or is it mostly unchanged? If the latter, is there a centralized place to find mods for the design other than combing through "back issues" here?

Also I've been looking at a mounting option close to the antenna along with a computer, to avoid noise/etc issues as well as minimize loss. Being able to support multiple bands without physical switching would be a great help for me in this respect! I'm still trying to understand whether it's practical to have one design work from ~10MHz (or lower?) up to literally 700 (well, up to 70cm for transmit)... or if I should just let the HF rig do what it does and fix the UHFSDR at 2m and/or 70cm and call it good.

Speaking of design mods, are the kicad files available anywhere for use? Rather than just the PDFs?

Last but not least, if anyone has done any experimentation (with UHFSDR or otherwise) using standalone ADC/DAC chips rather than sound cards for SDR applications, I would love to hear about it. I'd really like to see more than +/- 48kHz of band on the scope if at all possible, as well as having maximum precision without worrying about unexpected circuitry. There are several fairly cheap 1MHz class ADCs and several not-outrageous 10MHz class ADCs, for example. Piping that natively to USB shouldn't be too hard, though the CPU impact might be a limiting factor eventually.

Sorry for the lengthy brain-dump, but glad to see the interest in the project! And 73....

- Pat, KB8DGC

1741. USB soundcards

Yahoo group: UHFSDR
Date: 2014-05-21 03:00:07 UTC
From: MIKE DURKIN
Topic: 1741 Message: 1741

Hey, is there a list of usb soundcards that do not phase shift 90deg the left and right channels?

Mike KC7NOA

1742. f1fke@ymail.com

Yahoo group: UHFSDR
Date: 2014-06-26 04:02:59 UTC
From: f1fke
Topic: 1742 Message: 1742

http://donatferforje.com/lrzufxx/ojnvyweb.loehktowwub

1743. f1fke@ymail.com

Yahoo group: UHFSDR
Date: 2014-08-03 02:32:59 UTC
From: f1fke
Topic: 1742 Message: 1743

http://flofernandez.de/mkb/ppikkiazklfjfpjjinrgsinsylkwx.zldeuuelfphxwtmap

1744. Re: [UHFSDR] f1fke@ymail.com

Yahoo group: UHFSDR
Date: 2014-08-03 01:43:08 UTC
From: Mike
Topic: 1742 Message: 1744

You've been hacked !!!

On 08/02/2014 07:32 PM, 'f1fke' f1fke@... [UHFSDR] wrote:
>
> ☐htpjjinrgsinsylkwx.zldeuuelfphxwtmap
>
>

--
Mike KC7NOA

1745. those that use quisk

Yahoo group: UHFSDR
Date: 2014-08-05 02:41:29 UTC
From: Mike
Topic: 1745 Message: 1745

for those that use quisk ...

does anyone know how to add text to the blank buttons and make them go to other bands .. like 2m or 6m , even 70cm ?

Mike KC7NOA

--
Mike KC7NOA

1746. Re: [softrock40] those that use quisk

Yahoo group: UHFSDR
Date: 2014-08-05 03:21:08 UTC
From: Mike
Topic: 1745 Message: 1746

well i finally found my answer .... and it works ....

in file quisk_conf_defaults.py in main quisk folder

find

bandlables

and add like this ...

```
bandLabels = ['160', '80', ('60',) * 5, '40', '20', '17',
'15', '12', '10','6', '2', '1.25', '70cm', ('Time',) * len(bandTime)]
```

On 08/04/2014 07:41 PM, Mike Patriot121@... [softrock40] wrote:
>
> for those that use quisk ...
>
> does anyone know how to add text to the blank buttons and make them go
> to other bands .. like 2m or 6m , even 70cm ?
>
> Mike KC7NOA
>
> --
> Mike KC7NOA
>
>

--
Mike KC7NOA

1747. Interesting Discussion on SDR

Yahoo group: UHFSDR
Date: 2014-08-21 19:47:22 UTC
From: Silverfox
Topic: 1747 Message: 1747

http://www.altera.com/technology/system-design/articles/2014/software-defined-radio-openradio.html?utm_source=altera&utm_medium=email&utm_campaign=system_design_journal&utm_content=&elq=9da82267f3ce42d08181e5a21f8ec57c&elqCampaignId=829

73,

Alan - W6ARH

1748. Re: Interesting Discussion on SDR

Yahoo group: UHFSDR
Date: 2014-08-22 11:22:19 UTC
From: sbdick@...
Topic: 1747 Message: 1748

Other interesting developments:There is a Google group (Hermes-Lite) that is developing a board based on the Analog Devices AD9866 which is a low cost "low band" transceiver chip. They are shooting for a very low cost transceiver package, on the order of $150 total including processing. The board is planned to be used with a BeMicro SDK for full compatibility with Hermes software.

The Open HPSDR group is experimenting with a new SDR architecture based on the new NVIDIA TK1 embedded processing board and digitizing the entire 0 to 30MHz radio spectrum in real time which will feed to this board, which will do the processing. The TK1 uses multiple "graphics": processing engines in conjunction with a high order programming language. The big advantage is that it eliminates the need to program an FPGA. All the processing will be done in software, with no firmware (FPGA) development. Makes my head spin.

Regards,
"Digital Steve", K1RF.

---In UHFSDR@yahoogroups.com, <alan.r.hill@...> wrote :

http://www.altera.com/technology/system-design/articles/2014/software-defined-radio-openradio.html?utm_source=altera&utm_medium=email&utm_campaign=system_design_journal&utm_content=&elq=9da82267f3ce42d08181e5a21f8ec57c&elqCampaignId=829
73,
Alan - W6ARH

1749. Re: [UHFSDR] Re: Interesting Discussion on SDR

Yahoo group: UHFSDR
Date: 2014-08-24 04:44:34 UTC
From: Sid Boyce
Topic: 1747 Message: 1749

Interesting times.
I have the BeMicro SDK hooked up and programmed. I have the PCB from Rob Frohne but I'll wait for Steve's new board. It certainly brings DDC/DUC in at low cost.

I've decided to wait on the 64-bit Jetson due out later this year.

Lots of really interesting stuff going on in openHPSDR and elsewhere. August 23rd. Teamspeak was very enlightening and encouraging with regards to use of the Jetson TK1.
73 ... Sid.

On 22/08/14 12:22, sbdick@... [UHFSDR] wrote:
>
> Other interesting developments:There is a Google group (Hermes-Lite)
> that is developing a board based on the Analog Devices AD9866 which is
> a low cost "low band" transceiver chip. They are shooting for a very
> low cost transceiver package, on the order of $150 total including
> processing. The board is planned to be used with a BeMicro SDK for
> full compatibility with Hermes software.
>
> The Open HPSDR group is experimenting with a new SDR architecture
> based on the new NVIDIA TK1 embedded processing board and digitizing
> the entire 0 to 30MHz radio spectrum in real time which will feed to
> this board, which will do the processing. The TK1 uses multiple
> "graphics": processing engines in conjunction with a high order
> programming language. The big advantage is that it eliminates the need
> to program an FPGA. All the processing will be done in software, with
> no firmware (FPGA) development. Makes my head spin.
>
> Regards,
> "Digital Steve", K1RF.
>
>
>
> ---In UHFSDR@yahoogroups.com, <alan.r.hill@...> wrote :
>
> http://www.altera.com/technology/system-design/articles/2014/software-defined-radio-open
radio.html?utm_source=altera&utm_medium=email&utm_campaign=system_design_journal&utm_conte
nt=&elq=9da82267f3ce42d08181e5a21f8ec57c&elqCampaignId=829
>
> 73,
>
> Alan - W6ARH
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1750. Re: [UHFSDR] Re: Interesting Discussion on SDR

Yahoo group: UHFSDR
Date: 2014-08-24 15:09:51 UTC
From: Glen Overby
Topic: 1747 Message: 1750

On Fri, Aug 22, 2014 at 6:22 AM, sbdick@... [UHFSDR] <
UHFSDR@yahoogroups.com> wrote:

> Other interesting developments:There is a Google group (Hermes-Lite) that
> is developing a board based on the Analog Devices AD9866 which is a low
> cost "low band" transceiver chip. They are shooting for a very low cost
> transceiver package, on the order of $150 total including processing. The
> board is planned to be used with a BeMicro SDK for full compatibility with
> Hermes software.
>

Interesting project. A while back I found the AD9364 which they developed
with Ettus Research (an early gnuradio contributor). The 12-bit A/D
doesn't provide a lot of dynamic range, but I see the AD9866 has a
programmable gain amplifier of some 42dB. I'm not sure if that will make
up the difference between a 12-bit A/D and a 24-bit.

Glen, kc0iyt

1751. Re: [UHFSDR] Re: Interesting Discussion on SDR

Yahoo group: UHFSDR
Date: 2014-08-24 20:42:10 UTC
From: Sid Boyce
Topic: 1747 Message: 1751

Hi Glen,
I am not sure either but still does a great job.

Rob (KL7NA) has had Hermes-Lite up on internet using ghpsdr3-alex's
hpsdr-server and dspserver.
I and several others have hooked up to it and the receiver was thought
excellent by all.

Day to day use may show up deficiencies but it'll probably still out
perform any QSD/QSE rig.
73 ... Sid.

On 24/08/14 16:09, Glen Overby gpoverby@... [UHFSDR] wrote:
> On Fri, Aug 22, 2014 at 6:22 AM, sbdick@...
> <mailto:sbdick@...> [UHFSDR] <UHFSDR@yahoogroups.com
> <mailto:UHFSDR@yahoogroups.com>> wrote:
>
> Other interesting developments:There is a Google group
> (Hermes-Lite) that is developing a board based on the Analog
> Devices AD9866 which is a low cost "low band" transceiver chip.
> They are shooting for a very low cost transceiver package, on the
> order of $150 total including processing. The board is planned to
> be used with a BeMicro SDK for full compatibility with Hermes
> software.
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>
> Interesting project.Â A while back I found the AD9364 which they
> developed with Ettus Research (an early gnuradio contributor).Â The
> 12-bit A/D doesn't provide a lot of dynamic range, but I see the
> AD9866 has a programmable gain amplifier of some 42dB.Â I'm not sure
> if that will make up the difference between a 12-bit A/D and a 24-bit.
>
> Glen, kc0iyt
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1752. Re: [UHFSDR] Re: [softrock40] those that use quisk

Yahoo group: UHFSDR
Date: 2014-09-05 22:10:55 UTC
From: Mike
Topic: 1745 Message: 1752

So slight update ...

dont mod the quisk files in the quisk folder ...

just add

```
bandLabels = ['160', '80', ('60',) * 5, '40', '20', '17',
'15', '12', '10','6', '2', '1.25', '70cm', ('Time',) * len(bandTime)]
```

to your .quisk_conf.py that you place hidden in your home folder ....

On 08/04/2014 08:21 PM, Mike Patriot121@... [UHFSDR] wrote:

```
> bandLabels = ['160', '80', ('60',) * 5, '40', '20', '17',
> '15', '12', '10','6', '2', '1.25', '70cm', ('Time',) * len(bandTime)]
```

--
Mike KC7NOA

1753. si570 output

Yahoo group: UHFSDR
Date: 2014-09-28 22:09:26 UTC
From: Mike
Topic: 1753 Message: 1753

Hey ..

Has anyone measured the output of the si570 "A" from 80m to 10m ....
mine drops to 1/3 of 80m p-p ...

just wondering if this was normal ....

--
Mike KC7NOA

1754. Re: [UHFSDR] si570 output

Yahoo group: UHFSDR
Date: 2014-09-28 23:23:47 UTC
From: Dave
Topic: 1753 Message: 1754

Mike:
I don't think that is normal for LVECL. I remember seeing a
textbook square wave up to 2 meters from my Si570 on a 300 MHz scope.
Are the flip flops still triggering OK at 10m and above?

Dave - WB6DHW
<http://wb6dhw.com>

On 9/28/2014 3:09 PM, Mike Patriot121@... [UHFSDR] wrote:
>
> Hey ..
>
> Has anyone measured the output of the si570 "A" from 80m to 10m ....
> mine drops to 1/3 of 80m p-p ...
>
> just wondering if this was normal ....
>
> --
> Mike KC7NOA
>
>

1755. Re: [UHFSDR] si570 output

Yahoo group: UHFSDR
Date: 2014-09-28 23:56:33 UTC
From: Mike
Topic: 1753 Message: 1755

Sorry .. i was measuring at the Si570 .... my bad .... i should see if the dividers are the same ...

I seem to have a sloping output from low band down to 10M ... 80M (4mhz) was 3Vp-p and 10M (56Mhz) was 1Vp-p ...

My reading might be poor because i don't have a good scope probe (its been repaired and 10X no longer works)

scope is a 100Mhz TekTronics 2336ya .... with a X10 freq addon ....

I have a dropping output from 160M(17W) down to 10M(5W) ... seen on a heathkit watt meter

and im finally getting back to seeing why it drops down as the bands gets higher in freq .... its like its got a gradual roll off ... (and the output matched -- more or less -- the Si570 levels)

Till i get a good probe or make a high impedance voltage meter .... i shouldn't jump to the Si570 being the source of the power roll off.

On 09/28/2014 04:23 PM, Dave dave@... [UHFSDR] wrote:
>
> Mike:
> I don't think that is normal for LVECL. I remember seeing a
> textbook square wave up to 2 meters from my Si570 on a 300 MHz scope.
> Are the flip flops still triggering OK at 10m and above?
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 9/28/2014 3:09 PM, Mike Patriot121@... [UHFSDR] wrote:
>>
>> Hey ..
>>
>> Has anyone measured the output of the si570 "A" from 80m to 10m ....
>> mine drops to 1/3 of 80m p-p ...
>>
>> just wondering if this was normal ....
>>
>> --
>> Mike KC7NOA
>>
>
>

--
Mike KC7NOA

1756. Re: [UHFSDR] si570 output

Yahoo group: UHFSDR
Date: 2014-09-29 00:34:40 UTC
From: Sid Boyce
Topic: 1753 Message: 1756

The 10X probe should be easy to repair.
Typically there is a break in the circuit somewhere, e.g resistor to tip.

Home made probes are also easy to make
http://www.ece.vt.edu/cel/docs/TekProbeCircuits.pdf
page 12 - 50 Ohm coax cable, 9M resistor and a small capacitor.
73 ... Sid.

On 29/09/14 00:56, Mike Patriot121@... [UHFSDR] wrote:
>
> Sorry .. i was measuring at the Si570 .... my bad .... i should see if
> the dividers are the same ...
>
> I seem to have a sloping output from low band down to 10M ... 80M
> (4mhz) was 3Vp-p and 10M (56Mhz) was 1Vp-p ...
>
> My reading might be poor because i don't have a good scope probe (its
> been repaired and 10X no longer works)
>
> scope is a 100Mhz TekTronics 2336ya .... with a X10 freq addon ....
>
> I have a dropping output from 160M(17W) down to 10M(5W) ... seen on a
> heathkit watt meter
>
> and im finally getting back to seeing why it drops down as the bands
> gets higher in freq .... its like its got a gradual roll off ... (and
> the output matched -- more or less -- the Si570 levels)
>
> Till i get a good probe or make a high impedance voltage meter i
> shouldn't jump to the Si570 being the source of the power roll off.
>
>
>
>
> On 09/28/2014 04:23 PM, Dave dave@... [UHFSDR] wrote:
>> Â
>>
>> Mike:
>> Â I don't think that is normal for LVECL.Â Â Â I remember seeing a
>> textbook square wave up to 2 meters from my Si570 on a 300 MHz
>> scope.Â Are the flip flops still triggering OK at 10m and above?
>>
>> Dave - WB6DHW
>> <http://wb6dhw.com>
>>

>> On 9/28/2014 3:09 PM, Mike Patriot121@... [UHFSDR] wrote:
>>> Â
>>>
>>> Hey ..
>>>
>>> Has anyone measured the output of the si570 "A" from 80m to 10m ....
>>> mine drops to 1/3 of 80m p-p ...
>>>
>>> just wondering if this was normal ....
>>>
>>> --
>>> Mike KC7NOA
>>>
>>
>
> --
> Mike KC7NOA
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1757. Re: si570 output

Yahoo group: UHFSDR
Date: 2014-09-29 10:51:32 UTC
From: ra3apw@...
Topic: 1753 Message: 1757

Hello,

has anyone measured Si570's spectrum and phase noise ?

Karen, ra3apw

1758. For sale.....

Yahoo group: UHFSDR
Date: 2014-09-29 18:34:34 UTC
From: eskolin@...
Topic: 1758 Message: 1758

I have forsale:

1x UHFSDR board w.SI570 (945mhz) workingok. price: 100€
1x FA-66 soundcard + PCI-board+cable 2.0m price: 130€
1x UHFSDR board-kit and 90% of the components... price:50€
all you have to add shipping cost...

73' Bent
OZ1CT

1759. Re: [UHFSDR] For sale.....

Yahoo group: UHFSDR
Date: 2014-09-29 19:10:03 UTC
From: Mansueto Grech
Topic: 1758 Message: 1759

Hi Bent,
I am interested. are you selling all are together or???
73s
Mans. 9H1GB

On 29 September 2014 20:34, eskolin@... [UHFSDR] <
UHFSDR@yahoogroups.com> wrote:

>
>
> I have forsale:
>
>
> 1x UHFSDR board w.SI570 (945mhz) workingok. price: 100€
>
> 1x FA-66 soundcard + PCI-board+cable 2.0m price: 130€
>
> 1x UHFSDR board-kit and 90% of the components... price:50€
>
> all you have to add shipping cost...
>
>
> 73' Bent
>
> OZ1CT
>
>
>
>
>
>
>
>

1760. Re: [UHFSDR] For sale.....

Yahoo group: UHFSDR
Date: 2014-09-29 19:33:23 UTC
From: Mike
Topic: 1758 Message: 1760

I might get the kit ...

what kind of shipping is it from that island .... and what's missing ?

On 09/29/2014 11:34 AM, eskolin@... [UHFSDR] wrote:
>
> I have forsale:
>
>
> 1x UHFSDR board w.SI570 (945mhz) workingok. price: 100€
>
> 1x FA-66 soundcard + PCI-board+cable 2.0m price: 130€
>
> 1x UHFSDR board-kit and 90% of the components... price:50€
>
> all you have to add shipping cost...
>
>
> 73' Bent
>
> OZ1CT
>
>
>
>
>

--
Mike KC7NOA

1761. Re: For sale.....

Yahoo group: UHFSDR
Date: 2014-09-29 19:56:10 UTC
From: eskolin@...
Topic: 1758 Message: 1761

Hi Mike

Sorry but all sold..

tnx fer reply fast.

Bent

1762. Re: For sale.....

Yahoo group: UHFSDR
Date: 2014-09-29 20:14:42 UTC
From: eskolin@...
Topic: 1758 Message: 1762

TNX For all responce..... ALL SOLD

OZ1CT Bent

1763. Newbi

Yahoo group: UHFSDR
Date: 2014-10-05 08:01:11 UTC
From: mansueto.grech@...
Topic: 1763 Message: 1763

HI all,
I recently got a UHFSDR and need some info on what software to use for TX/RX.
For the moment I will concentrate on Windows software but later on my goal is to use it with Linux.
Apart from the UHFSDR I also have a WB5RVZ USB_I2C interface and a Roland External sound card.

My Question with this setup what software can I use and an documentation/ info available please.
Thank you in advance
Mans. 9H1GB

1764. Re: [UHFSDR] Newbi

Yahoo group: UHFSDR
Date: 2014-10-05 14:53:31 UTC
From: Mike
Topic: 1763 Message: 1764

HDSDR quisk powersdr(with software mods??) sdrradio ...

Linux i use quisk and linrad(rx, iv never tried Tx) ghpsdr3-alex ....

im sure there is more
On 10/05/2014 01:01 AM, mansueto.grech@... [UHFSDR] wrote:
>
> HI all,
>
> I recently got a UHFSDR and need some info on what software to use for
> TX/RX.
>
> For the moment I will concentrate on Windows software but later on my
> goal is to use it with Linux.
>
> Apart from the UHFSDR I also have a WB5RVZ USB_I2C interface and a
> Roland External sound card.
>
>
> My Question with this setup what software can I use and an
> documentation/ info available please.
>
> Thank you in advance
>
> Mans. 9H1GB
>
>
>

--
Mike KC7NOA

1765. Re: [UHFSDR] Newbi

Yahoo group: UHFSDR
Date: 2014-10-05 15:11:05 UTC
From: Mansueto Grech
Topic: 1763 Message: 1765
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Mike,
Thanks for the info. Whilst waiting for a reply I play a bit, or tried to at least, with Powersdr But keep getting the below error.
[image: Inline images 1]
I an using windows 7 64bit. Before I was gett an error saying that the pal.dll was missing.....

Thanks
Mans. 9H1GB

On 5 October 2014 16:53, Mike Patriot121@... [UHFSDR] <
UHFSDR@yahoogroups.com> wrote:

>
>
> HDSDR quisk powersdr(with software mods??) sdrradio ...
>
> Linux i use quisk and linrad(rx, iv never tried Tx) ghpsdr3-alex ....
>
> im sure there is more
> On 10/05/2014 01:01 AM, mansueto.grech@... [UHFSDR] wrote:
>
>
>
> HI all,
>
> I recently got a UHFSDR and need some info on what software to use for
> TX/RX.
>
> For the moment I will concentrate on Windows software but later on my goal
> is to use it with Linux.
>
> Apart from the UHFSDR I also have a WB5RVZ USB_I2C interface and a Roland
> External sound card.
>
>
> My Question with this setup what software can I use and an
> documentation/ info available please.
>
> Thank you in advance
>
> Mans. 9H1GB
>
>
>

>
>
> --
> Mike KC7NOA
>
>
>

1766. Re: [UHFSDR] Newbi

Yahoo group: UHFSDR
Date: 2014-10-05 18:28:46 UTC
From: Dave
Topic: 1763 Message: 1766

Mans:
I use PowerSDR-IQ_Div2 by sv1eia. Whatever software you use, you
must be able to set the LO divider to 2. Most other SDRs use divide by 4.

Dave - WB6DHW
<http://wb6dhw.com>

On 10/5/2014 1:01 AM, mansueto.grech@... [UHFSDR] wrote:
>
> HI all,
>
> I recently got a UHFSDR and need some info on what software to use for
> TX/RX.
>
> For the moment I will concentrate on Windows software but later on my
> goal is to use it with Linux.
>
> Apart from the UHFSDR I also have a WB5RVZ USB_I2C interface and a
> Roland External sound card.
>
>
> My Question with this setup what software can I use and an
> documentation/ info available please.
>
> Thank you in advance
>
> Mans. 9H1GB
>
>
>

1767. Re: [UHFSDR] Newbi

Yahoo group: UHFSDR
Date: 2014-10-05 19:02:07 UTC
From: Mansueto Grech
Topic: 1763 Message: 1767

thanks for the tip Dave.
73's
Mans. 9H1GB

On 5 October 2014 20:28, Dave dave@... [UHFSDR] <
UHFSDR@yahoogroups.com> wrote:

>
>
> Mans:
> I use PowerSDR-IQ_Div2 by sv1eia. Whatever software you use, you must
> be able to set the LO divider to 2. Most other SDRs use divide by 4.
>
> Dave - WB6DHW
> <http://wb6dhw.com> <http://wb6dhw.com>
>
> On 10/5/2014 1:01 AM, mansueto.grech@... [UHFSDR] wrote:
>
>
>
> HI all,
>
> I recently got a UHFSDR and need some info on what software to use for
> TX/RX.
>
> For the moment I will concentrate on Windows software but later on my goal
> is to use it with Linux.
>
> Apart from the UHFSDR I also have a WB5RVZ USB_I2C interface and a Roland
> External sound card.
>
>
> My Question with this setup what software can I use and an
> documentation/ info available please.
>
> Thank you in advance
>
> Mans. 9H1GB
>
>
>
>
>
>
>

1768. Re: [UHFSDR] Newbi

Yahoo group: UHFSDR
Date: 2014-10-06 01:37:53 UTC
From: Stew
Topic: 1763 Message: 1768

Mans,

GSDR from Genesis radios has a divide by 2 option also. As long as your controller uses Fred's PE0FKO software it will work. Just select QRP2000 as the radio. It was recently updated to work with DDutil, which will control filter banks through LPT port, among many other things.

73, Stew
KF5KOG

-----Original Message-----
From: Mansueto Grech mansueto.grech@gmail.com [UHFSDR] <UHFSDR@yahoogroups.com>
To: UHFSDR <UHFSDR@yahoogroups.com>
Sent: Sun, Oct 5, 2014 2:02 pm
Subject: Re: [UHFSDR] Newbi

thanks for the tip Dave.
73's
Mans. 9H1GB

On 5 October 2014 20:28, Dave dave@... [UHFSDR] <UHFSDR@yahoogroups.com> wrote:

Mans:
I use PowerSDR-IQ_Div2 by sv1eia. Whatever software you use, you must be able to set the LO divider to 2. Most other SDRs use divide by 4.

Dave - WB6DHW
<http://wb6dhw.com>

On 10/5/2014 1:01 AM, mansueto.grech@... [UHFSDR] wrote:

HI all,

I recently got a UHFSDR and need some info on what software to use for TX/RX.

For the moment I will concentrate on Windows software but later on my goal is to use it with Linux.

Apart from the UHFSDR I also have a WB5RVZ USB_I2C interface and a Roland External sound card.

My Question with this setup what software can I use and an documentation/ info available please.

Thank you in advance

Mans. 9H1GB

1769. Re: [UHFSDR] Newbi

Yahoo group: UHFSDR
Date: 2014-10-06 09:39:38 UTC
From: Mansueto Grech
Topic: 1763 Message: 1769

Hi Stew,
Thanks for the tip. I'll try that too.
73's
Mans. 9H1GB

On 6 October 2014 03:37, Stew kf5kog@... [UHFSDR] <
UHFSDR@yahoogroups.com> wrote:

>
>
> Mans,
>
> GSDR from Genesis radios has a divide by 2 option also. As long as your
> controller uses Fred's PE0FKO software it will work. Just select QRP2000
> as the radio. It was recently updated to work with DDutil, which will
> control filter banks through LPT port, among many other things.
>
> 73, Stew
> KF5KOG
>
>
> -----Original Message-----
> From: Mansueto Grech mansueto.grech@... [UHFSDR] <
> UHFSDR@yahoogroups.com>
> To: UHFSDR <UHFSDR@yahoogroups.com>
> Sent: Sun, Oct 5, 2014 2:02 pm
> Subject: Re: [UHFSDR] Newbi
>
>
> thanks for the tip Dave.
> 73's
> Mans. 9H1GB
>
> On 5 October 2014 20:28, Dave dave@... [UHFSDR] <
> UHFSDR@yahoogroups.com> wrote:
>
>>
>> Mans:
>> I use PowerSDR-IQ_Div2 by sv1eia. Whatever software you use, you must
>> be able to set the LO divider to 2. Most other SDRs use divide by 4.
>>
>> Dave - WB6DHW
>> <http://wb6dhw.com> <http://wb6dhw.com>
>>
>> On 10/5/2014 1:01 AM, mansueto.grech@gmail.com [UHFSDR] wrote:

>>
>>
>> HI all,
>> I recently got a UHFSDR and need some info on what software to use for
>> TX/RX.
>> For the moment I will concentrate on Windows software but later on my
>> goal is to use it with Linux.
>> Apart from the UHFSDR I also have a WB5RVZ USB_I2C interface and a
>> Roland External sound card.
>>
>> My Question with this setup what software can I use and an
>> documentation/ info available please.
>> Thank you in advance
>> Mans. 9H1GB
>>
>>
>>
>>
>>
>
>

1770. SDR-KIT For sale

Yahoo group: UHFSDR
Date: 2014-10-14 13:06:47 UTC
From: mihai_dumitru_home@...
Topic: 1770 Message: 1770

Hi everyone, I have an sdr-kit for sale

The kit contains:
- all the parts (including resistors and capacitors),
- an SI570BBB000141DG (10-810MHz, LVDS, 20ppm, Start-up frequency: 56.32 MHz),
- the original WB6DHW PCB (unplanted),

- a PCB projected by me which contains an ATTINY85-20SU for USB connection development.

Price 75 euro, including shipment.

73'
Mihai YO3CWB

1771. Re: [UHFSDR] SDR-KIT For sale

Yahoo group: UHFSDR
Date: 2014-10-14 13:19:47 UTC
From: Jacinto Rebelo
Topic: 1770 Message: 1771

Hi, if you still didn't sell I'm interested ...

73

Jacinto
Em 14/10/2014 13:06, "mihai_dumitru_home@... [UHFSDR]" <
UHFSDR@yahoogroups.com> escreveu:

>
>
> Hi everyone, I have an sdr-kit for sale
>
>
> The kit contains:
>
> - all the parts (including resistors and capacitors),
>
> - an SI570BBB000141DG (10-810MHz, LVDS, 20ppm, Start-up frequency: 56.32
> MHz),
>
> - the original WB6DHW PCB (unplanted),
>
> - a PCB projected by me which contains an ATTINY85-20SU for USB connection
> development.
>
>
> Price 75 euro, including shipment.
>
>
> 73'
>
> Mihai YO3CWB
>
>

1772. RD power mosfet

Yahoo group: UHFSDR
Date: 2014-10-14 19:03:37 UTC
From: Mike
Topic: 1772 Message: 1772

Does anyone have a few RD15HVF that they would like to sell ?

Or know of a source (low price) in USA ?

thanks

--
Mike KC7NOA

1773. Re: [UHFSDR] RD power mosfet

Yahoo group: UHFSDR
Date: 2014-10-14 19:17:50 UTC
From: Dave
Topic: 1772 Message: 1773

Mike:
<rfparts.com>
has them for $4.95 each.

Dave - WB6DHW
<http://wb6dhw.com>

On 10/14/2014 12:03 PM, Mike Patriot121@... [UHFSDR] wrote:
>
> Does anyone have a few RD15HVF that they would like to sell ?
>
> Or know of a source (low price) in USA ?
>
> thanks
>
> --
> Mike KC7NOA
>
>

1774. Re: [UHFSDR] RD power mosfet

Yahoo group: UHFSDR
Date: 2014-10-14 20:29:07 UTC
From: Alex Perez
Topic: 1772 Message: 1774

rfparts.com now has a $20 Minimum Order Quantity. You can buy a pair of RD15HVF1's, including shipping, for $12.50, from a seller in Dayton, OH, at http://www.ebay.com/itm/RD15HVF1-Original-Mitsubishi-FET-Transistor-2-pcs/291182184450

On Oct 14, 2014, at 12:17 PM, Dave dave@... [UHFSDR] <UHFSDR@yahoogroups.com> wrote:

>
> Mike:
> <rfparts.com>
> has them for $4.95 each.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 10/14/2014 12:03 PM, Mike Patriot121@... [UHFSDR] wrote:
>>
>> Does anyone have a few RD15HVF that they would like to sell ?
>>
>> Or know of a source (low price) in USA ?
>>
>> thanks
>>
>> --
>> Mike KC7NOA
>>
>>
>
>
>

1775. looking to buy a UHFSDR PCB (North America)

Yahoo group: UHFSDR
Date: 2014-10-14 20:30:02 UTC
From: Alex Perez
Topic: 1775 Message: 1775

If anyone here has one they’d be interested in selling, please let me know!

73’s

Alex
WB6ALX

1776. Re: [UHFSDR] looking to buy a UHFSDR PCB (North America)

Yahoo group: UHFSDR
Date: 2014-10-14 20:41:16 UTC
From: Mike
Topic: 1775 Message: 1776

Thanks for the heads up ....

just bought it off of the bay ....

funny that the ebay price is cheaper with shipping (free) than what they
sell from their own site .....

On 10/14/2014 01:30 PM, Alex Perez aperez@alexperez.com [UHFSDR] wrote:
> If anyone here has one they'd be interested in selling, please let me know!
>
> 73's
>
> Alex
> WB6ALX
>
> ------------------------------------
>
> ------------------------------------
>
>
> ------------------------------------
>
> Yahoo Groups Links
>
>
>
>
>

--
Mike KC7NOA

1777. Re: [UHFSDR] looking to buy a UHFSDR PCB (North America)

Yahoo group: UHFSDR
Date: 2014-10-14 20:58:50 UTC
From: Dave
Topic: 1775 Message: 1777

Alex:
I have blank UHFSDR PCB's in stock at
<http://wb6dhw.com/For_Sale.html#UHFSDR>
Scrool down for the Paypal buttons.

Dave - WB6DHW
<http://wb6dhw.com>

On 10/14/2014 1:30 PM, Alex Perez aperez@... [UHFSDR] wrote:
> If anyone here has one they?d be interested in selling, please let me know!
>
> 73?s
>
> Alex
> WB6ALX
>
> ------------------------------------
>
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>
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>
> Yahoo Groups Links
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>

1778. UHF SDR Gain

Yahoo group: UHFSDR
Date: 2014-10-19 00:53:13 UTC
From: rholsti@...
Topic: 1778 Message: 1778

I got my uhfsdr working with a sdr2go.
I have lots of gain, .. what method is recommended to reduce the gain like a rf gain control?
It sure is a very sensitive rig for hf. I have been testing it on 40 meters and so far, very happy with it.
Robert KH2BR

1779. Re: [UHFSDR] UHF SDR Gain

Yahoo group: UHFSDR
Date: 2014-10-19 01:01:34 UTC
From: Mike
Topic: 1778 Message: 1779

There in the instructions .... i don't remember which .. but i leave
them jumpered ...

It adjusts the Rx and Tx !!!! ..... i have the settings saved low and
when i turn it on i must bring up the volume and Tx power ....

On 10/18/2014 05:53 PM, rholsti@... [UHFSDR] wrote:
>
> I got my uhfsdr working with a sdr2go.
>
> I have lots of gain, .. what method is recommended to reduce the gain
> like a rf gain control?
>
> It sure is a very sensitive rig for hf. I have been testing it on 40
> meters and so far, very happy with it.
>
> Robert KH2BR
>
>

--
Mike KC7NOA

1780. Re: [UHFSDR] UHF SDR Gain

Yahoo group: UHFSDR
Date: 2014-10-19 01:31:32 UTC
From: Mike
Topic: 1778 Message: 1780

Its on page 22 of the "SDR2GO Builders Notes - May, 2012.pdf"

On 10/18/2014 06:01 PM, Mike Patriot121@... [UHFSDR] wrote:
>
> There in the instructions .... i don't remember which .. but i leave
> them jumpered ...
>
> It adjusts the Rx and Tx !!!! ..... i have the settings saved low and
> when i turn it on i must bring up the volume and Tx power ....
>
>
> On 10/18/2014 05:53 PM, rholsti@... [UHFSDR] wrote:
>>
>> I got my uhfsdr working with a sdr2go.
>>
>> I have lots of gain, .. what method is recommended to reduce the
>> gain like a rf gain control?
>>
>> It sure is a very sensitive rig for hf. I have been testing it on 40
>> meters and so far, very happy with it.
>>
>> Robert KH2BR
>>
>
> --
> Mike KC7NOA
>

--
Mike KC7NOA

1781. Re: [UHFSDR] UHF SDR Gain

Yahoo group: UHFSDR
Date: 2014-10-19 15:51:02 UTC
From: rholsti@...
Topic: 1778 Message: 1781

I have been doing that. I will have to look around for a attenuator circuit.

1782. Re: [UHFSDR] UHF SDR Gain

Yahoo group: UHFSDR
Date: 2014-10-19 16:13:58 UTC
From: Mike
Topic: 1778 Message: 1782

i can reduce the gain till i don't hear anything ....

On 10/19/2014 08:51 AM, rholsti@... [UHFSDR] wrote:
>
> I have been doing that. I will have to look around for a attenuator
> circuit.
>
>

--
Mike KC7NOA

1783. Re: [UHFSDR] UHF SDR Gain

Yahoo group: UHFSDR
Date: 2014-10-19 16:18:54 UTC
From: Mike
Topic: 1778 Message: 1783

Are you using a bandpass filter for the Rx ?

On 10/19/2014 08:51 AM, rholsti@... [UHFSDR] wrote:
>
> I have been doing that. I will have to look around for a attenuator
> circuit.
>
>

--
Mike KC7NOA

1784. Re: [UHFSDR] UHF SDR Gain

Yahoo group: UHFSDR
Date: 2014-10-19 17:54:04 UTC
From: rholsti@...
Topic: 1778 Message: 1784

I am not using the band pass filter. I have the WB6DHW band pass filter here.
Do you think that will make a difference?
When the DSP is in the receive mode, Encoder #2 will adjust the Receive IQ Amplitude and IQ Phase
Parameters plus the receive headphone audio output level available on J14.
So, everything is turned down at one time. If I reduce the I/q level, I still want to hear what is there.
My idea is to place a attenuator in there, but if the band pass filter helps with that, then that's what I will try first.
Robert KH2BR

1785. Re: [UHFSDR] UHF SDR Gain

Yahoo group: UHFSDR
Date: 2014-10-19 22:57:12 UTC
From: Mike
Topic: 1778 Message: 1785

Well not sure ....

I use the same knob to vary Tx level as i do the Rx ..
I also have volume control for my audio amp ....

Are you using another audio amp for a speaker .. or using a headphone ..?

I'm just saying that i don't have an issue with too much signal i
use a MFJ-1798 antenna ...

On 10/19/2014 10:54 AM, rholsti@... [UHFSDR] wrote:
>
> I am not using the band pass filter. I have the WB6DHW band pass
> filter here.
>
> Do you think that will make a difference?
>
> *When the DSP is in the receive mode, Encoder #2 will adjust the
> Receive IQ Amplitude and IQ Phase*
>
> *Parameters plus the receive headphone audio output level available on
> J14.*
>
> *So, everything is turned down at one time. If I reduce the I/q level,
> I still want to hear what is there.
> My idea is to place a attenuator in there, but if the band pass filter
> helps with that, then that's what I will try first.*
>
> *Robert KH2BR*
>
>
>

--
Mike KC7NOA

1786. Q of SMD coils

Yahoo group: UHFSDR
Date: 2014-10-21 15:37:43 UTC
From: Mike
Topic: 1786 Message: 1786

Are these "Blue" chip coils from CoilCraft worth the money .. or winding your own still the best ??

--
Mike KC7NOA

1787. VHF amp .. kinda old

Yahoo group: UHFSDR
Date: 2014-10-21 20:24:13 UTC
From: Mike
Topic: 1787 Message: 1787

Has anyone seen this amp and know of a schematic ?

https://groups.yahoo.com/neo/groups/AQRP/photos/albums/51509064/lightbox/1827550344?orderBy=ordinal&sortOrder=asc&photoFilter=ALL

DyComm ES-2K

--
Mike KC7NOA

1788. Re: [UHFSDR] VHF amp .. kinda old

Yahoo group: UHFSDR
Date: 2014-10-21 20:37:26 UTC
From: Jean-Paul Louis
Topic: 1787 Message: 1788

Mike,

The link is broken as you need to be a member of the group in order to view the files

73 de Jean-Paul
AC9GH

On Oct 21, 2014, at 4:24 PM, Mike Patriot121@... [UHFSDR] <UHFSDR@yahoogroups.com> wrote:

> Has anyone seen this amp and know of a schematic ?
>
> https://groups.yahoo.com/neo/groups/AQRP/photos/albums/51509064/lightbox/1827550344?orderBy=ordinal&sortOrder=asc&photoFilter=ALL
>
> DyComm ES-2K
>
> --
> Mike KC7NOA
>
>
>

1789. uhfsdr kit for sale !!

Yahoo group: UHFSDR
Date: 2014-10-30 17:22:41 UTC
From: albatross579@...
Topic: 1789 Message: 1789

Hi there.
Gareth 2E0GGO here and I have a full kit including all parts and un populated board and Si570 280mhz .
I am unable to use this and has been in my shack filing cabinet for some time.
Please message me albatross579@yahoo.co.uk if you might be interested!!
Cheers
73's
GAreth 2E0GGO

1790. BPF control

Yahoo group: UHFSDR
Date: 2014-11-07 05:47:25 UTC
From: Mike
Topic: 1790 Message: 1790

Has any one thought of controlling a bandpass filter setup by tying into
the output of a Si570 and counting what freq its running at ?
and be USB set able and forget like most of the AVR Si570 controllers
can do ?

That way a larger bandpass filter might be used as an addon to a
softrock or UHFSDR or the like .....

--
Mike KC7NOA

1791. RE: [UHFSDR] BPF control

Yahoo group: UHFSDR
Date: 2014-11-07 15:35:30 UTC
From: Silverfox
Topic: 1790 Message: 1791

Check out the Mobokit.

73,

Alan - W6ARH

Mobokits - http://mobokits.stormwarning.org

UHFSDR - Order by sending USD via paypal to my email address. US orders are $210 and DX are $215.

http://www.wb6dhw.com/For_Sale.html#UHFSDR

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
Sent: Thursday, November 6, 2014 9:47 PM
To: aqrp@yahoogroups.com; uhfSDR@yahoogroups.com
Subject: [UHFSDR] BPF control

Has any one thought of controlling a bandpass filter setup by tying into
the output of a Si570 and counting what freq its running at ?
and be USB set able and forget like most of the AVR Si570 controllers
can do ?

That way a larger bandpass filter might be used as an addon to a
softrock or UHFSDR or the like .....

--
Mike KC7NOA

No virus found in this message.
Checked by AVG - www.avg.com
Version: 2015.0.5315 / Virus Database: 4189/8523 - Release Date: 11/06/14

1792. Re: [UHFSDR] BPF control

Yahoo group: UHFSDR
Date: 2014-11-07 18:45:54 UTC
From: Mike
Topic: 1790 Message: 1792

Im looking to add to what i already have .. ie sdr2go & UHFSDR (class "A" Si570)

Im still cloudy on just exactly what a mobo4.3 kit is Alan ... and at 98$ pluss another 20$ some for a 6band filter kit .... i want to know exactly how its interconnected .... (like using WB6DHW SMD BPF board instead)

Iv seen AlexLee's recoding of Si570 controllers to use a pic32 ... and it looks promising ....

Frankly having the ability to control more than HF filters is what im looking for starting off ....

second ... there's the ability to take control of the Si570 from a sdr2go (like a buffer or go between-- that can take the commands from the sdr2go and route them to the si570) ... regardless if the usb is plugged in or not ...

I want to make my sdr more mobile and base (with PC) compatible ...

My SDR should do 902Mhz (on 3rd harmonic) Tx/Rx but there are no filter controllers that can handle that many bands ....

Iv sent this to other user groups because im wondering if there is any others that might be looking for the same thing ...

On 11/07/2014 07:35 AM, 'Silverfox' alan.r.hill@... [UHFSDR] wrote:
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> Check out the Mobokit.
>
> 73,
>
> Alan - W6ARH
>
> Mobokits - http://mobokits.stormwarning.org
>
> UHFSDR - Order by sending USD via paypal to my email address. US
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>
> *From:*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
> *Sent:* Thursday, November 6, 2014 9:47 PM
> *To:* aqrp@yahoogroups.com; uhfSDR@yahoogroups.com
> *Subject:* [UHFSDR] BPF control
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>
>

--
Mike KC7NOA

1793. Re: [UHFSDR] BPF control

Yahoo group: UHFSDR
Date: 2014-11-07 21:56:35 UTC
From: Sergio Lopez Llorens
Topic: 1790 Message: 1793

I want to use to vhf and uhf bands but seems that no deployments for.
Then hfsdr only?
El 07/11/2014 19:46, "Mike Patriot121@... [UHFSDR]" <
UHFSDR@yahoogroups.com> escribió:

>
>
> Im looking to add to what i already have .. ie sdr2go & UHFSDR (class "A"
> Si570)
>
> Im still cloudy on just exactly what a mobo4.3 kit is Alan ... and at 98$
> pluss another 20$ some for a 6band filter kit .... i want to know exactly
> how its interconnected .... (like using WB6DHW SMD BPF board instead)
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> Iv seen AlexLee's recoding of Si570 controllers to use a pic32 ... and it
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> and route them to the si570) ... regardless if the usb is plugged in or not
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> Mobokits - http://mobokits.stormwarning.org
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> Mike KC7NOA
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>
>

1794. Re: [UHFSDR] BPF control

Yahoo group: UHFSDR
Date: 2014-11-07 22:35:37 UTC
From: Milt Cram
Topic: 1790 Message: 1794

On 11/6/2014 11:47 PM, Mike Patriot121@... [UHFSDR] wrote:
>
> Has any one thought of controlling a bandpass filter setup by tying into
> the output of a Si570 and counting what freq its running at ?
> and be USB set able and forget like most of the AVR Si570 controllers
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> That way a larger bandpass filter might be used as an addon to a
> softrock or UHFSDR or the like .....
>
> --
> Mike KC7NOA
>
>
> ---
>
FYI--

There are several variations of the Atmel based Si570 controllers that provide control of up to 16 filters. One of the guys in the Austin QRP (AQRP) group is designing a board that will utilize an AT Mega chip to control both the Si570 and up to 16 filters. It will use a variant of the code that is in the MoBo Si570 controller. It is based on the ATTiny code that was used in the SoftRocks and has undergone several iterations. The following have contributed to the code development--DG8SAQ, PE0FKO, TF3LJ, 9V1AL, F6ITU, KF4BQ, and KY1K. I apologize if I have left someone out.

73, Milt
W8NUE

1795. Re: [UHFSDR] BPF control

Yahoo group: UHFSDR
Date: 2014-11-07 22:50:37 UTC
From: Milt Cram
Topic: 1790 Message: 1795

On 11/6/2014 11:47 PM, Mike Patriot121@... [UHFSDR] wrote:
>
> Has any one thought of controlling a bandpass filter setup by tying into
> the output of a Si570 and counting what freq its running at ?
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> can do ?
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> That way a larger bandpass filter might be used as an addon to a
> softrock or UHFSDR or the like .....
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> Mike KC7NOA
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Hi Mike,

Are you aware that the Si570 controller code for the SDR2GO has been modified to allow control of 8 filters based on the Si570 frequency. Switching frequencies are stored in eeprom and as the Si570 is tuned, the frequency is compared with the stored frequencies, and 3 bits are set. I modified the code in the Freescale 9S08 chip to automate the filter selection.

73, Milt
W8NUE

1796. Re: [UHFSDR] BPF control

Yahoo group: UHFSDR
Date: 2014-11-07 23:08:10 UTC
From: Mike
Topic: 1790 Message: 1796

Kinda ...

I know of only expensive deployments ... for HF AND vhf/uhf .... TS2000 ....

using HDSDR or Quisk with a UHFSDR(and class "B" or "A" Si570) would
net you HF and vhf .. but there are no bandpass filters for VHF/UHF AND
HF that i know of ....

Id like to keep my UHFSDR2GO as a complete unit and incorporate an
add-on in between the UHFSDR & SDR2GO so that a PC could also control
the UHFSDR and that go-between to control the bandpass filters -- which
would have enough control lines to use HF/VHF/UHF bandpass filters ....

The SDR2GO has only 3 control lines and its not enuff to automatically
switch filters for that many filters ...

id guess that 4 lines would be necessary .... 3 used (shared) as bcd as
used with the WB6DHW filter (or what have you) and the 4th to switch
between the HF and VHF/UHF routeing ...

Id like to see a wb6dhw 6 BPF board layed out with parts for 6M, 144mhz
220mhz and 440mhz and possibly 900mhz filters ....

Now the 900mhz would be fairly easy since there are helical filters
available that are used in maxtrac and GTx conversions as well as Ef
Johnson gear ....

I have a few in hand for 900Mhz that are centred on 915mhz ....

but im getting off subject ....

im hoping some one that has the capability’s to generate something like
this, see's that there is a need ....

The many softrocks out there probably wont benifit as much from
something like this ... they are more or less only HF ....
But all UHFSDR's can do VHF with a class B Si570 ...

On 11/07/2014 01:56 PM, Sergio Lopez Llorens
sergio.lopez.llorens@... [UHFSDR] wrote:
>
> I want to use to vhf and uhf bands but seems that no deployments for.
> Then hfsdr only?
>
> El 07/11/2014 19:46, "Mike Patriot121@...
> <mailto:Patriot121@...> [UHFSDR]" <UHFSDR@yahoogroups.com
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> Im looking to add to what i already have .. ie sdr2go & UHFSDR
> (class "A" Si570)
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> Im still cloudy on just exactly what a mobo4.3 kit is Alan ... and
> at 98$ pluss another 20$ some for a 6band filter kit .... i want
> to know exactly how its interconnected .... (like using WB6DHW SMD
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>> [mailto:UHFSDR@yahoogroups.com]
>> *Sent:* Thursday, November 6, 2014 9:47 PM
>> *To:* aqrp@yahoogroups.com <mailto:aqrp@yahoogroups.com>;
>> uhfSDR@yahoogroups.com <mailto:uhfSDR@yahoogroups.com>

>> *Subject:* [UHFSDR] BPF control
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>> and be USB set able and forget like most of the AVR Si570
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> --
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>

--
Mike KC7NOA

1797. Re: [UHFSDR] BPF control

Yahoo group: UHFSDR
Date: 2014-11-07 23:12:32 UTC
From: Mike
Topic: 1790 Message: 1797

No i didint ....

il ask quick ... is that for the new STMsdr2go or the old one...

if the old one .. is the documentation in the file section ?

On 11/07/2014 02:50 PM, Milt Cram w8nue@... [UHFSDR] wrote:
>
> On 11/6/2014 11:47 PM, Mike Patriot121@... [UHFSDR] wrote:
>>
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>> the output of a Si570 and counting what freq its running at ?
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>> --
>> Mike KC7NOA
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> Hi Mike,
>
> Are you aware that the Si570 controller code for the SDR2GO has been
> modified to allow control of 8 filters based on the Si570 frequency.
> Switching frequencies are stored in eeprom and as the Si570 is tuned,
> the frequency is compared with the stored frequencies, and 3 bits are
> set. I modified the code in the Freescale 9S08 chip to automate the
> filter selection.
>
> 73, Milt
> W8NUE
>

--
Mike KC7NOA

1798. Re: [UHFSDR] BPF control

Yahoo group: UHFSDR
Date: 2014-11-07 23:27:05 UTC
From: Milt Cram
Topic: 1790 Message: 1798

On 11/7/2014 5:12 PM, Mike Patriot121@... [UHFSDR] wrote:
>
> No i didint ....
>
> il ask quick ... is that for the new STMsdr2go or the old one...
>
> if the old one .. is the documentation in the file section ?
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> On 11/07/2014 02:50 PM, Milt Cram w8nue@... [UHFSDR] wrote:
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>> set. I modified the code in the Freescale 9S08 chip to automate the
>> filter selection.
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>> 73, Milt
>> W8NUE
>
Hi Mike,

My previous comments are in regard to the old SDR2GO. I don't know if
Dave has incorporated the changes in the STM32-SDR. Since the STM32-SDR
handles all of the Si570 control in the STM32F4 chip, the code is quite
different from the SDR2GO which uses the 9S08 for Si570 control and a
dsPIC for all the other processing.

I'm not sure if Kees has posted the revised 9S08 code for the SDR2GO. However, I have the source code for the 9S08 on my computer if you need a copy.

73, Milt
W8NUE

1799. Re: [UHFSDR] BPF control

Yahoo group: UHFSDR
Date: 2014-11-07 23:56:18 UTC
From: Mike
Topic: 1790 Message: 1799

yea.. id like a copy ...

and perhaps a pinout change ... i assume something has to be
disconnected that presently is ....
I dont have anything that can program the Freescale 9S08 ... ill haft to
get something ....

On 11/07/2014 03:27 PM, Milt Cram w8nue@... [UHFSDR] wrote:
>
> On 11/7/2014 5:12 PM, Mike Patriot121@... [UHFSDR] wrote:
>>
>> No i didint ....
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--
Mike KC7NOA

1800. RE: [UHFSDR] BPF control

Yahoo group: UHFSDR
Date: 2014-11-08 09:42:46 UTC
From: Marc OLANIE
Topic: 1790 Message: 1800
Attachments: 2 described; binary payloads are missing from this source WARC

Hi Mike

A long time ago, SV1IXP described such a bpf switching system using Christo’s USB2SDR audio/interface board

http://sv1ixp.wordpress.com/homebrew-hfvu-sdr/

The « mobo » is fully dedicated to the softrock 6.3.
Adapting this « full RF band piggy-back extension » to a UHFSDR is possible but really tricky. Even if the mobo is able to command an external bpf filter (with 4 bits, that means 16 different filters) , this switch will only work on HF bands. For several software reasons, Alex and Loftur firmware can drive an I2C bus to control a filter switch, but the display section of the microcontroler of this very same firmware cannot show a frequency above… don’t remember. 40 or 99 MHz. That’s a pure cosmetic problem, but a really boring one.

The SDR-Widget, which is an audio processor/ Si570 driver with fully configurable I/O cannot be used for the very same reason (same unified firmware in fact). The bandswitch capabilities are here, compatible with the DG8SAQ drivers, but still the LDC display of the board cannot display VHF/UHF frequencies.

The STM32-SDR (kinda SDR2G on steroid) could be a solution. It has been developped with the UHFSDR in mind, don’t need any kind of computer to control modulation/demodulation of the rig, has a nice spectrum/waterfall display, and covers from 160 to the limit of Dave’s UHFSDR (with a AA Si570). But you should ask the development team more infos concerning the switching capabilities. As far as I remember, the STM32-SDR has only 3 bits to control any kind of switching interface. If you really intend to use all HF, VHF and UHF bands, that’s definitely not enough. Particularly when you are considering switching BPF and different amplifiers on 2 meters, 70 cm and so on.

I’m convince that VE7PKE’s team can modify the firmware to give us a dedicated I2C adress range to drive 16 different filters and switches. It would be easier than adding a 4th GPIO pin to reach the 1111 frontier :-)

Technically, everything depends on the way you are driving your Si570. I personally don’t think that measuring the frequency of the oscillator is a good option. Whatever system you choose to drive your Si570, you already have a precise indication of your working frequency : the I2C instruction given to the oscillator. Using this I2C info to a microcontroler –even an Arduino Nano could do this- will offer you an impressive quantity of GPIOs. This way, you’ll be able to control any kind and any quantity of filters, and even build a real sequencer to control the timing of your different amps and pre-amp during the swithing process

My 2 cts and Vy 73’
Marc f6itu

De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
Envoyé : samedi 8 novembre 2014 00:56
À : UHFSDR@yahoogroups.com
Objet : Re: [UHFSDR] BPF control

yea.. id like a copy ...

and perhaps a pinout change ... i assume something has to be disconnected that presently is ....
I dont have anything that can program the Freescale 9S08 ... ill haft to get something ....

On 11/07/2014 03:27 PM, Milt Cram w8nue@arrl.net<mailto:w8nue@arrl.net> [UHFSDR] wrote:

On 11/7/2014 5:12 PM, Mike Patriot121@msn.com<mailto:Patriot121@msn.com> [UHFSDR] wrote:

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I'm not sure if Kees has posted the revised 9S08 code for the SDR2GO. However, I have the source code for the 9S08 on my computer if you need a copy.

73, Milt
W8NUE

--

Mike KC7NOA

1801. Re: [UHFSDR] BPF control

Yahoo group: UHFSDR
Date: 2014-11-08 17:10:36 UTC
From: Mike
Topic: 1790 Message: 1801

I tend to agree ....

A I2C slave on the same buss probably would be the cheapest path to fulfilment ...

plus probably could dump the 3bit on the sdr2go/stm32-sdr for something else .... or leave it i guess ...

But the real problem is COST ... i like many others already have a sdr2go and UHFSDR ....

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>
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> spectrum/waterfall display, and covers from 160 to the limit of Dave’s

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> infos concerning the switching capabilities. As far as I remember, the
> STM32-SDR has only 3 bits to control any kind of switching interface.
> If you really intend to use all HF, VHF and UHF bands, that’s
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> Marc f6itu
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> *De :*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
> *Envoyé :* samedi 8 novembre 2014 00:56
> *À :* UHFSDR@yahoogroups.com
> *Objet :* Re: [UHFSDR] BPF control
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> No i didint ....
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> il ask quick ... is that for the new STMsdr2go or the old one...
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> if the old one .. is the documentation in the file section ?
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> running at ?
> and be USB set able and forget like most of the AVR
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> can do ?
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> That way a larger bandpass filter might be used as an
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> I'm not sure if Kees has posted the revised 9S08 code for the
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> Mike KC7NOA
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Mike KC7NOA

1802. Re: [UHFSDR] BPF control

Yahoo group: UHFSDR
Date: 2014-11-08 17:48:34 UTC
From: Dave Miller
Topic: 1790 Message: 1802

A couple of comments on STM32-SDR.
We do have extra bits that we could add an extra pin on the BPF connector on next board run. Those bits are available on the existing boards so no one would left behind.

Bigger issue I see is the user interface. Current version only has to deal with 8 combinations. Thought would be required to add more options.

If there were enough requests for I2C functionality we could make it a feature in the future. It's actually not that huge a feature to add.
But it's only software. ;-). This request is best discussed on the STM32-SDR Yahoo Forum.

The FM feature request on the list and will be addressed in the future I expect. But it requires significant fiddling. This fiddling required the right person to tackle it. So far the right person has not had the burning desire and the energy to tackle this. Volunteers?

As pointed out in other threads recently here or other yahoo groups the software or firmware requires significant expertise and perseverance. This is constantly being undervalued in the amateur community. Open Source does not pay the rent and heat. Everyone needs to appreciate the time and efforts of John, Charley, Milt, Brian, Chris and Jack in the STM32-SDR firmware development. Other also have contributed many hours on project on things like documentation and hardware. ;-)

I am now stepping off the soapbox.

Dave
VE7PKE

Sent from my iPhone

> On Nov 8, 2014, at 9:10 AM, Mike Patriot121@... [UHFSDR] <UHFSDR@yahoogroups.com> wrote:
>
> I tend to agree ....
>
> A I2C slave on the same buss probably would be the cheapest path to fulfilment ...
>
> plus probably could dump the 3bit on the sdr2go/stm32-sdr for something else .... or leave it i guess ...
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> But the real problem is COST ... i like many others already have a sdr2go and UHFSDR ....
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> I guess i could sell the sdr2go ... but i don't really want to ...
> but one of the other nagging issues for me is that the stm32-sdr has no FM ... and to leave that out of the picture is like leaving 9/10th of the operating use out of the picture when operating above 10Meters ....
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>> The « mobo » is fully dedicated to the softrock 6.3.
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>> The STM32-SDR (kinda SDR2G on steroid) could be a solution. It has been developped with the UHFSDR in mind, don’t need any kind of computer to control modulation/demodulation of the rig, has a nice spectrum/waterfall display, and covers from 160 to the limit of Dave’s UHFSDR (with a AA Si570). But you should ask the development team more infos concerning the switching capabilities. As far as I remember, the STM32-SDR has only 3 bits to control any kind of switching interface. If you really intend to use all HF, VHF and UHF bands, that’s definitely not enough. Particularly when you are considering switching BPF and different amplifiers on 2 meters, 70 cm and so on.

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1803. RE: [UHFSDR] BPF control

Yahoo group: UHFSDR
Date: 2014-11-08 18:05:41 UTC
From: Marc OLANIE
Topic: 1790 Message: 1803

Many tnks for your explanations Dave

>Bigger issue I see is the user interface. Current version only has to deal with 8 combinations. Thought would be required to add more options.

Betrayed by the interface :-) I could’nt imagine such a problem. Does the crosspoint table has to be « interface accessible » or could this feature define during a firmware pre-configuration ? (just a suggestion). Very few hams are changing the filter switching plan during operations.

>If there were enough requests for I2C functionality we could make it a feature in the future. It's actually not that huge a feature to add.
But it's only software. ;-). This request is best discussed on the STM32-SDR Yahoo Forum.

The former question too.. you’re right. But the initial thread was starded with a more general subject. From my pure egotist point of view, a « I2C Bandswitch bus » would be easier to deal with than a fourth control bit… no pcb hardware mod.

>. So far the right person has not had the burning desire and the energy to tackle this. Volunteers?
I wish I could… Alas, I don’t have this talent :- ((

Pse be sure that we all appreciate your efforts. I know how much perseverance requires such projects like the STM-SDR

Vy 73’
Marc

1804. RE: [UHFSDR] BPF control

Yahoo group: UHFSDR
Date: 2014-11-08 18:14:40 UTC
From: Marc OLANIE
Topic: 1790 Message: 1804
Attachments: 2 described; binary payloads are missing from this source WARC

Hi Mike

An I2C slave on the same bus will cost you at least the price of a chinese Arduino nano clone (far less than changing your 2go for a STM). And this way you'll still have FM.

the only drawback is that you'll have to develop the code to trigger the bandswitching (the command of the filter, I2C or BCD is less complex)

Just my 2 cts

Marc f6itu

De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
Envoyé : samedi 8 novembre 2014 18:11
À : UHFSDR@yahoogroups.com
Objet : Re: [UHFSDR] BPF control

I tend to agree ....

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il ask quick ... is that for the new STMsdr2go or the old one...

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73, Milt
W8NUE

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Mike KC7NOA

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Mike KC7NOA

1805. Re: [UHFSDR] BPF control

Yahoo group: UHFSDR
Date: 2014-11-08 18:26:31 UTC
From: Dave Miller
Topic: 1790 Message: 1805

See below.

Sent from my iPhone

> On Nov 8, 2014, at 10:05 AM, Marc OLANIE Marc.olanie@... [UHFSDR] <UHFSDR@yahoogroups.com> wrote:
>
> Many tnks for your explanations Dave
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> >Bigger issue I see is the user interface. Current version only has to deal with 8 combinations. Thought would be required to add more options.
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> Betrayed by the interface :-) I could’nt imagine such a problem. Does the crosspoint table has to be « interface accessible » or could this feature define during a firmware pre-configuration ? (just a suggestion). Very few hams are changing the filter switching plan during operations.
>
It's got to be at run time. But it's in the advanced setup screen. It can be done but there is a list of feature right now more deemed important.
>
>
> >If there were enough requests for I2C functionality we could make it a feature in the future. It's actually not that huge a feature to add.
>
> But it's only software. ;-). This request is best discussed on the STM32-SDR Yahoo Forum.
>
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>
> The former question too.. you’re right. But the initial thread was starded with a more general subject. From my pure egotist point of view, a « I2C Bandswitch bus » would be easier to deal with than a fourth control bit… no pcb hardware mod.
>
I am a supporter of either option. Best discussed on the STM:2-SDR forum. The people most likely to tackle this enhancement don't hang out here. ;-). The STM32-SDR forum always welcomes discussion. Bring it up there and I can put it on the feature request list. ;-)
>
>
> >. So far the right person has not had the burning desire and the energy to tackle this. Volunteers?
>
> I wish I could… Alas, I don’t have this talent :- ((

>
But the feature request is a huge contribution. Purchasing hardware and adding feature requests or testing softwares makes you a contributor to the project and that is appreciated. Without contributors the project would not move ahead.
>
>
> Pse be sure that we all appreciate your efforts. I know how much perseverance requires such projects like the STM-SDR
>
>
>
Thanks.
Dave
VE7PKE
> Vy 73’
>
> Marc
>
>
>
>
>
>

1806. Re: YU1LM 2-Meter BPF

Yahoo group: UHFSDR
Date: 2014-11-16 02:31:46 UTC
From: Patriot121@...
Topic: 1196 Message: 1806

Does any one have PCB's and parts -- a kind of kit ?

1807. Re: [UHFSDR] Re: YU1LM 2-Meter BPF

Yahoo group: UHFSDR
Date: 2014-11-18 16:12:40 UTC
From: Sid Boyce
Topic: 1196 Message: 1807

I have only seen it built on a bare PCB with land patterns for the connections.
73 ... Sid.

On 16/11/14 02:31, Patriot121@... [UHFSDR] wrote:
>
> Does any one have PCB's and parts -- a kind of kit ?
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1808. part source

Yahoo group: UHFSDR
Date: 2014-11-22 06:15:20 UTC
From: Mike
Topic: 1808 Message: 1808

I need a smd 24AA128 for a Si570 controller 2 from the AQRP group ....

I think its the only part that i don't have that will keep me from
assembling this kit ...

sorry for the bandwidth ...

--
Mike KC7NOA

1809. Si570 Grade A, B and C

Yahoo group: UHFSDR
Date: 2014-11-26 22:51:51 UTC
From: leschyna@...
Topic: 1809 Message: 1809

Hi, I am trying to get up to speed on the Si570 and its three variants. Please help me understand the difference between the three grades of Si570 devices. I understand that the grade A version will go the highest in frequency, but my concern is in the supporting circuitry. Is different circuity required depending on which grade of Si570 chooses, ie CMOS vs LVPECL? Or is this only with regard to the internal workings of the Si570 device itself?

Sorry for the "Newbie" question.

73
Bob VE3UK

1810. Re: [UHFSDR] Si570 Grade A, B and C

Yahoo group: UHFSDR
Date: 2014-11-26 23:19:29 UTC
From: Dave
Topic: 1809 Message: 1810

Bob:
The circuitry is the same for all 3 speed grades. The CMOS output option will not work on the UHFSDR. Two complementary outputs are required for the I/Q generator.

Dave - WB6DHW
<http://wb6dhw.com>

On 11/26/2014 2:51 PM, leschyna@... [UHFSDR] wrote:
>
> Hi, I am trying to get up to speed on the Si570 and its three
> variants. Please help me understand the difference between the three
> grades of Si570 devices. I understand that the grade A version will go
> the highest in frequency, but my concern is in the supporting
> circuitry. Is different circuity required depending on which grade of
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> internal workings of the Si570 device itself?
>
>
> Sorry for the "Newbie" question.
>
>
> 73
>
> Bob VE3UK
>
>

1812. 5V single device

Yahoo group: UHFSDR
Date: 2014-12-04 18:45:13 UTC
From: Mike
Topic: 1812 Message: 1812

Any one know of a cheap 5V (linear -- dont really want a switching) regulator that can supply more current than a LM7805 ?

--
Mike KC7NOA

1813. Re: [UHFSDR] 5V single device

Yahoo group: UHFSDR
Date: 2014-12-04 19:23:28 UTC
From: Stephen Farthing
Topic: 1812 Message: 1813

Mike,
Use a pass transistor. See http://www.rason.org/Projects/vreg/vreg.pdf

73 Steve G0XAR

On Thursday, 4 December 2014, Mike Patriot121@... [UHFSDR] <
UHFSDR@yahoogroups.com> wrote:

>
>
> Any one know of a cheap 5V (linear -- dont really want a switching)
> regulator that can supply more current than a LM7805 ?
>
> --
> Mike KC7NOA
>
>
>

1814. Re: 5V single device

Yahoo group: UHFSDR
Date: 2014-12-04 19:29:07 UTC
From: rholsti@...
Topic: 1812 Message: 1814

Lm323t. Mouser. $1.59. 3amp
L78s05cv. Mouser. $.76. 2amp

I found this.. Zsr300gta. Variable rf attenuator, trying to control uhfsdr full blast gain. Trying to make a negative 3 volt control source

Bob kh2br

1815. Re: [UHFSDR] Re: 5V single device

Yahoo group: UHFSDR
Date: 2014-12-04 20:01:20 UTC
From: Mike
Topic: 1812 Message: 1815

Wish the Lm323 had a to-220 case flavour ....

On 12/04/2014 11:29 AM, rholsti@... [UHFSDR] wrote:
>
> Lm323t. Mouser. $1.59. 3amp
> L78s05cv. Mouser. $.76. 2amp
>
> I found this.. Zsr300gta. Variable rf attenuator, trying to control
> uhfsdr full blast gain.
> Trying to make a negative 3 volt control source
>
> Bob kh2br
>
>

--
Mike KC7NOA

1816. Re: [UHFSDR] Re: 5V single device

Yahoo group: UHFSDR
Date: 2014-12-04 20:02:56 UTC
From: Mike
Topic: 1812 Message: 1816

Why not just adjust the audio input ?

or are you trying to control input (Rx) signal ?

On 12/04/2014 11:29 AM, rholsti@... [UHFSDR] wrote:
>
> Lm323t. Mouser. $1.59. 3amp
> L78s05cv. Mouser. $.76. 2amp
>
> I found this.. Zsr300gta. Variable rf attenuator, trying to control
> uhfsdr full blast gain.
> Trying to make a negative 3 volt control source
>
> Bob kh2br
>
>

--
Mike KC7NOA

1817. Re: [UHFSDR] Re: 5V single device

Yahoo group: UHFSDR
Date: 2014-12-04 20:18:05 UTC
From: rholsti@...
Topic: 1812 Message: 1817

it is a TO-220 case
here is the link.
http://www.mouser.com/ProductDetail/STMicroelectronics/LM323T/?qs=sGAEpiMZZMsprRPEdcYqIsesnynS6d4y http://www.mouser.com/ProductDetail/STMicroelectronics/LM323T/?qs=sGAEpiMZZMsprRPEdcYqIsesnynS6d4y
I wish they would just use a first class envelope to mail small quantity parts. 40 cent stamp
is cheaper then 4 bucks.
I can adjust the audio just fine. I want to control the rf input. the mmic can be adjusted with a pot in its
supply line. I saw the chart in a pdf, so I tried it, and rf level can be changed,
I tried a simple resistive attenuator and that worked even better to tame down that hot mmic..
I came across that variable 20 db attenuator with 50 ohm input and output by chance and figured, why not give it a shot. now, I just have to figure out how to make negative 3 volts . so that's what im doing now.

1818. Re: [UHFSDR] 5V single device

Yahoo group: UHFSDR
Date: 2014-12-05 06:10:26 UTC
From: Mansueto Grech
Topic: 1812 Message: 1818

Hi Mike,
I believe the H series are 5Amps ie 78H05 is 5V 5A

Hope this is of some use
73's
Good Luck
Mans. 9H1GB

On 4 December 2014 at 19:45, Mike Patriot121@... [UHFSDR] <
UHFSDR@yahoogroups.com> wrote:

>
>
> Any one know of a cheap 5V (linear -- dont really want a switching)
> regulator that can supply more current than a LM7805 ?
>
> --
> Mike KC7NOA
>
>
>

1819. RE: [UHFSDR] 5V single device

Yahoo group: UHFSDR
Date: 2014-12-05 08:13:20 UTC
From: Marc OLANIE
Topic: 1812 Message: 1819
Attachments: 2 described; binary payloads are missing from this source WARC

Hi Mike
78H05 indeed, in TO3 case. But if you are looking for TO220 or Dpack form factor, you'd better choose an LM1084. It's a 3 to 4 amp regulator, fix or variable (the variable model is 100% LM317 compatible, even considering the resistor network calculation)

73'
Marc f6itu

De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
Envoyé : vendredi 5 décembre 2014 07:10
À : UHFSDR@yahoogroups.com
Objet : Re: [UHFSDR] 5V single device

Hi Mike,
I believe the H series are 5Amps ie 78H05 is 5V 5A

Hope this is of some use
73's
Good Luck
Mans. 9H1GB

On 4 December 2014 at 19:45, Mike Patriot121@msn.com<mailto:Patriot121@msn.com> [UHFSDR] <UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>> wrote:

Any one know of a cheap 5V (linear -- dont really want a switching)
regulator that can supply more current than a LM7805 ?

--
Mike KC7NOA

1820. Re: UHF SDR Gain

Yahoo group: UHFSDR
Date: 2014-12-05 22:54:15 UTC
From: rholsti@...
Topic: 1778 Message: 1820

Well, I have had success with the excessive gain and now it works better then I expected.
I installed a variable RF attenuator between C15 and U7. It is controlled by negative 3 volts.
Right now I am using a battery pack to supply the negative 3 volts for testing.
Before the simple mod was done, strong signals were pumping. Now the RF gain is variable with a 100k pot.
the part number for the variable attenuator is MAAVSS0006TR-3000 which I got from Mouser.
I ordered a switching regulator charge pump that will take positive 5 volts in and output a variable negative voltage. Also have a negative 3 volt regulator . with that installed, I can get rid of the battery pack.
The charge pump is TPS60400DBVR. The parts are relay cheap, I wish they learn how to use stamps and a small letter envelope instead of a big box. I highly recommend this addition.
Robert KH2BR

1821. Re: UHF SDR Gain

Yahoo group: UHFSDR
Date: 2014-12-06 16:57:05 UTC
From: g.suggate@...
Topic: 1778 Message: 1821

Very interesting modification Robert. I suffer from overload of the uhfsdr from strong signals on 4m in the UK. I am intending to try your mod to see if it will help. Did you put the voltage adjustment pot before or after the Inverter? Presumably a fixed resistor is needed at the earthy end of the pot to stop the control voltage going above -1.6. If you have the values used it will save me doing the maths !!
Geoff G3NPI

1822. Re: UHF SDR Gain

Yahoo group: UHFSDR
Date: 2014-12-06 17:23:44 UTC
From: rholsti@...
Topic: 1778 Message: 1822

Hi Geoff,

The output of the charge pump is not regulated so you will have to output to a negative 3 volt regulator.
100k pot is placed across the output of the regulator. the wiper is connected to the control of the attenuator.
I did not do math, just did the mod and it worked. Mouser does not have a negative 3 volt regulator in stock, they do have one that is adjustable, so I have that on order as well as the charge pump. I am still on
a 3 volt battery but will be off of that in a couple days. The adjustable negative regulator part number is
LM337KVURG3

Robert

1823. joaoalmeida d

Yahoo group: UHFSDR
Date: 2014-12-11 10:31:40 UTC
From: f1fke
Topic: 1823 Message: 1823

http://allafula.bibleforisrael.com/sahpk/fooawytslfsouzybdahauxfmm.ablvpvmqxjybcgcgvabpvdbufopjtpqvhqxuxu

f1fke@...
12/11/2014 10:31:40 AM

1824. UHFSDR & Si570 & Quisk

Yahoo group: UHFSDR
Date: 2014-12-17 06:43:13 UTC
From: Mike
Topic: 1824 Message: 1824

Well ... sorry for the bandwidth ....

Ill start off as saying that i have a UHSDR with a Class "A" Si570 ...
it saposed to be good up to 1.41Ghz output ... mine is LVDS output.

Iv had a bit of a problem for a while of not being able to use anything
above 1.25M hamband for some reason.
I knew that usbsoftrock would set higher frequencies .... just not why.

I think i found the answer tonight .... and i hope Jim is ok with me
posting the change to hardware_usb.py in the softrock folder ....

actually i made 2 changes .. but ill get to the other later for users of
divide by 2 Rf front ends ...

im not sure what line number right now .... but its about 3/4 the way down.

```
# For now, find the minimum DCO speed that will give us the
# desired frequency; if we're slewing in the future, we want this
# to additionally yield an RFREQ ~= 512.
freq = int(freq * 4)
dco_new = None
hsdiv_new = 0
n1_new = 0
for hsdiv in SI570_HSDIV_VALUES:
n1 = int(math.ceil(SI570_MIN_DCO / (freq * hsdiv)))
if n1 < 1:
n1 = 1
else: <::::::: Remark
me with a "#" at the beginning of this line
n1 = ((n1 + 1) / 2) * 2 <::::::: Remark me with a
"#" at the beginning of this line
dco = (freq * 1.0) * hsdiv * n1
```

I know what the "else:" is doing here in this code area ...
but not
n1 = ((n1 + 1) / 2) * 2

If n1 was 1.1 from the previous code --- with wanting a freq of 940Mhz ...

n1 = int(math.ceil(SI570_MIN_DCO / (freq * hsdiv)))
4.85ghz / ((940Ghz * 4)
note: 4 is the lowest hsdiv you can have

then n1= 1.289893617 (BEFORE math.ceil FUNCTION IS USED)

n1= 1 after math.ceil FUNCTION IS USED (i had to go look it up ... lol)

so in equation n1 = ((n1 + 1) / 2) * 2 where
n1 = ((1+1)/2)*2
n1 = ((2) /2)*2
n1 = (1)*2
n1 = 2 ..... n1 started as 1 and when ever n1
is below 2 , it will be recalc'ed back up to 2

So ... when the DCO freq is checked in the last line .... it will always
be outside the Min / Max DCO frequency limits ... if you had a Si570
class A OR B !!!(BTY .. dont spend the extra money on the Class "A"
Si570 .. you don't need it)

with n1 being pushed to 2 when ever its below 2 the max freq the Si570
can output is 606.5Mhz .... thats 303Mhz with a /2 Rf front end.

Or my reasoning is totally messed up ... but this did work for me !!!!!

YMMV !!!!!!

--
Mike KC7NOA

1825. Si570BBB USA seller

Yahoo group: UHFSDR
Date: 2014-12-17 20:04:41 UTC
From: Mike
Topic: 1825 Message: 1825

Any one know of a USA seller that sells a Si570BBB .... LVDS to 915Mhz(ish) ...?

I'm just investigating for future purchase when i get around to building my 2nd UHFSDR ....

--
Mike KC7NOA

1826. Re: [UHFSDR] Si570BBB USA seller

Yahoo group: UHFSDR
Date: 2014-12-17 20:55:03 UTC
From: Stephen Farthing
Topic: 1825 Message: 1826

Mike,

If you cannot find a US seller try Jan G0BBL at SDR-kits in England. He carries a wide range of Si570s.

73s Steve g0xar

On Wednesday, 17 December 2014, Mike Patriot121@... [UHFSDR] <UHFSDR@yahoogroups.com> wrote:

>
>
> Any one know of a USA seller that sells a Si570BBB .... LVDS to
> 915Mhz(ish) ...?
>
> I'm just investigating for future purchase when i get around to building
> my 2nd UHFSDR ....
>
> --
> Mike KC7NOA
>
>
>

1827. Re: [UHFSDR] Si570BBB USA seller

Yahoo group: UHFSDR
Date: 2014-12-17 21:17:50 UTC
From: Mike
Topic: 1825 Message: 1827

yea .. seen em already .. its the shipping from there im trying to avoid
....

but of course ill always compare .... i think he has a QRP2000 With a
Si570BBB for 34& ....

On 12/17/2014 12:55 PM, Stephen Farthing squirrox@gmail.com [UHFSDR] wrote:
>
> Mike,
>
>
> If you cannot find a US seller try Jan G0BBL at SDR-kits in England.
> He carries a wide range of Si570s.
>
> 73s Steve g0xar
>
> On Wednesday, 17 December 2014, Mike Patriot121@msn.com
> <mailto:Patriot121@...> [UHFSDR] <UHFSDR@yahoogroups.com
> <mailto:UHFSDR@yahoogroups.com>> wrote:
>
> Any one know of a USA seller that sells a Si570BBB .... LVDS to
> 915Mhz(ish) ...?
>
> I'm just investigating for future purchase when i get around to
> building
> my 2nd UHFSDR ....
>
> --
> Mike KC7NOA
>
>

--
Mike KC7NOA

1828. Re: [UHFSDR] Si570BBB USA seller

Yahoo group: UHFSDR
Date: 2014-12-18 08:57:08 UTC
From: Stephen Farthing
Topic: 1825 Message: 1828

Mike,

The Si570 is tiny. Drop Jan a line and see if he will help on the shipping by just popping one in an airmail envelope. He is a good guy and "ham friendly" . That is if you cannot source one in the USA, which seems weird because I am pretty sure he buys in bulk from Digikey or Mouser.

73 Steve

On 17 December 2014 at 21:17, Mike Patriot121@... [UHFSDR] <
UHFSDR@yahoogroups.com> wrote:
>
>
>
> yea .. seen em already .. its the shipping from there im trying to avoid
> ....
>
> but of course ill always compare .... i think he has a QRP2000 With a
> Si570BBB for 34& ....
>
>
> On 12/17/2014 12:55 PM, Stephen Farthing squirrox@... [UHFSDR]
> wrote:
>
>
>
> Mike,
>
> If you cannot find a US seller try Jan G0BBL at SDR-kits in England. He
> carries a wide range of Si570s.
>
> 73s Steve g0xar
>
> On Wednesday, 17 December 2014, Mike Patriot121@... [UHFSDR] <
> UHFSDR@yahoogroups.com> wrote:
>
>>
>>
>> Any one know of a USA seller that sells a Si570BBB .... LVDS to
>> 915Mhz(ish) ...?
>>
>> I'm just investigating for future purchase when i get around to building
>> my 2nd UHFSDR ....
>>
>> --
>> Mike KC7NOA

>>
>>
> --
> Mike KC7NOA
>
>
>

1829. FW: [AQRP] Re: RF Gain control for the UHFSDR

Yahoo group: UHFSDR
Date: 2015-01-09 06:39:39 UTC
From: Silverfox
Topic: 1829 Message: 1829

Cross post for answers.

73,

Alan - W6ARH

From: AQRP@...m [mailto:AQRP@yahoogroups.com]
Sent: Thursday, January 8, 2015 7:53 PM
To: AQRP@yahoogroups.com
Subject: Re: [AQRP] Re: RF Gain control for the UHFSDR

Im wondering / asking all vhf/uhf users of the UHFSDR -- what do you use for amplifiers ?

On 01/08/2015 07:50 PM, kb1gmx@... [AQRP] wrote:

I solved the same problem on a VHF transceiver and used a pin diode twin T

variable attenuator. The circuit for it is in EMRFD and many other places.

Allison

--
Mike KC7NOA

No virus found in this message.
Checked by AVG - www.avg.com
Version: 2015.0.5577 / Virus Database: 4257/8892 - Release Date: 01/08/15

1830. adum1251

Yahoo group: UHFSDR
Date: 2015-01-09 19:30:35 UTC
From: Mike
Topic: 1830 Message: 1830

anyone know or tried to see if the adum1251 will trigger with 1.8V logic levels ?

--
Mike KC7NOA

1831. Re: [UHFSDR] STM32-SDR now has a website.

Yahoo group: UHFSDR
Date: 2015-01-25 19:45:50 UTC
From: Mike
Topic: 1591 Message: 1831

Was the FM demod/mod done on the STM32 or on a computer ?

On 08/05/2013 08:27 PM, Dave wrote:
>
> Mike:
> I've used it on 2 meters and 70cm NBFM. I have also used it to
> receive AM(never tried transmitting). Depends on the software. Will
> not do wideband FM.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 8/5/2013 7:56 PM, MIKE DURKIN wrote:
>>
>> wish it did Am/Fm too ...
>>
>> ---
>> To: UHFSDR@yahoogroups.com
>> From: ve7pke@...
>> Date: Tue, 6 Aug 2013 00:26:25 +0000
>> Subject: [UHFSDR] STM32-SDR now has a website.
>>
>> Please excuse the intrusion. I want to tell you about a project that
>> I and a group from AQRP (Austin TX QRP) have been working on. I am
>> just finishing up my UHDSDR kit and it should play nicely with the
>> UHFSDR.
>>
>> STM32-SDR (SDR Sans PC) the project that replaces the PC when hooked
>> up to a I/Q based RF deck has a website now. This project is a open
>> source software with a hardware board available. The UHFSDR was taken
>> into account when it was designed.
>> More information on the project with pictures and documentation can
>> be found at
>> www.stm32-sdr.com
>>
>> Drop by and get more details.
>>
>> If you have interest make sure you also drop an email to
>> stm32sdr@... <mailto:stm32sdr%40gmail.com> to get on the email
>> updates list for more up to date information.
>>
>> Thanks for you interest.
>> Dave Miller
>> VE7PKE
>>

>>
>
>

--
Mike KC7NOA

1832. vhf uhf or UHFSDR

Yahoo group: UHFSDR
Date: 2015-01-26 07:15:14 UTC
From: Mike
Topic: 1832 Message: 1832

So i was wondering this evening ....

Who is using there UHFSDR for VHF or UHF operations ?

is there any advice ?

--
Mike KC7NOA

1833. RE: [UHFSDR] vhf uhf or UHFSDR

Yahoo group: UHFSDR
Date: 2015-01-26 08:30:19 UTC
From: Marc OLANIE
Topic: 1832 Message: 1833

Hi Mike

I do, and it's working quite well.

I'm not in my shack right now... Can't help you a lot. But as far as I can remember, there is a small adaptation (not even a "mod") concerning the value of the inductance located in the supply of the final MMIC circuit (L1 560 nH). You'll have to dig in the mailing list, a long thread was talking about that.

My main UHFSDR board is heavily shielded, V and U amps are in there own shielded enclosure, with their respective bandpass filters.

Marc f6itu

-----Message d'origine-----
De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
Envoyé : lundi 26 janvier 2015 08:15
À : uhfSDR@yahoogroups.com
Objet : [UHFSDR] vhf uhf or UHFSDR

So i was wondering this evening ....

Who is using there UHFSDR for VHF or UHF operations ?

is there any advice ?

--
Mike KC7NOA

Posted by: Mike <patriot121@msn.com>

Yahoo Groups Links

1834. Re: [UHFSDR] vhf uhf or UHFSDR

Yahoo group: UHFSDR
Date: 2015-01-26 08:35:32 UTC
From: Dave
Topic: 1832 Message: 1834

Mike:
I tested it several years ago on 2M FM transceive and 70cm receive as well as receiving the audio(25 KHZ wide FM) of our local UHF TV translators. I was able to work through a repeater about 25 miles from here(line of sight) barefoot using a 20 meter vertical as an antenna. I used PowerSDR.
I know there are several that use the UHFSDR as a 144 MHz IF for microwave work. Perhaps they can chime in.

Dave - WB6DHW
<http://wb6dhw.com>

On 1/25/2015 11:15 PM, Mike Patriot121@... [UHFSDR] wrote:
>
> So i was wondering this evening ....
>
> Who is using there UHFSDR for VHF or UHF operations ?
>
> is there any advice ?
>
> --
> Mike KC7NOA
>
>

1835. RE: [UHFSDR] vhf uhf or UHFSDR

Yahoo group: UHFSDR
Date: 2015-01-26 08:40:23 UTC
From: Marc OLANIE
Topic: 1832 Message: 1835

Hi agn Mike

Alzheimer got me... I totally forgot to tell you... there is a small community of ham using V and UHF capabilities of Dave's UHFSDR on the SDM32-SDR Yahoo group
Marc

-----Message d'origine-----
De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
Envoyé : lundi 26 janvier 2015 09:30
À : UHFSDR@yahoogroups.com
Objet : RE: [UHFSDR] vhf uhf or UHFSDR

Hi Mike

I do, and it's working quite well.

I'm not in my shack right now... Can't help you a lot. But as far as I can remember, there is a small adaptation (not even a "mod") concerning the value of the inductance located in the supply of the final MMIC circuit (L1 560 nH). You'll have to dig in the mailing list, a long thread was talking about that.

My main UHFSDR board is heavily shielded, V and U amps are in there own shielded enclosure, with their respective bandpass filters.

Marc f6itu

-----Message d'origine-----
De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] Envoyé : lundi 26 janvier 2015 08:15 À : uhfSDR@yahoogroups.com Objet : [UHFSDR] vhf uhf or UHFSDR

So i was wondering this evening ....

Who is using there UHFSDR for VHF or UHF operations ?

is there any advice ?

--
Mike KC7NOA

Posted by: Mike <patriot121@msn.com>

Yahoo Groups Links

Posted by: Marc OLANIE <marc.olanie@decision.fr>

Yahoo Groups Links

1836. Re: [UHFSDR] vhf uhf or UHFSDR

Yahoo group: UHFSDR
Date: 2015-01-26 16:32:10 UTC
From: Mike
Topic: 1832 Message: 1836

OK .. im interested in what users are doing about filters and amps ....

mostly for filters at the moment .... for 2m, 1.25m, 70cm ,33cm and 23cm ...

If found a pcb bpf for 23cm that looks good ....

On 01/26/2015 12:30 AM, Marc OLANIE Marc.olanie@... [UHFSDR] wrote:
>
> Hi Mike
>
> I do, and it's working quite well.
>
> I'm not in my shack right now... Can't help you a lot. But as far as I
> can remember, there is a small adaptation (not even a "mod")
> concerning the value of the inductance located in the supply of the
> final MMIC circuit (L1 560 nH). You'll have to dig in the mailing
> list, a long thread was talking about that.
>
> My main UHFSDR board is heavily shielded, V and U amps are in there
> own shielded enclosure, with their respective bandpass filters.
>
> Marc f6itu
>
>
>
>
>
> -----Message d'origine-----
> De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
> Envoyé : lundi 26 janvier 2015 08:15
> À : uhfSDR@yahoogroups.com
> Objet : [UHFSDR] vhf uhf or UHFSDR
>
> So i was wondering this evening ....
>
> Who is using there UHFSDR for VHF or UHF operations ?
>
> is there any advice ?
>
>
> --
> Mike KC7NOA
>
>
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> ------------------------------------

> Posted by: Mike <patriot121@...>
> ----------
>
>
> ----------
>
> Yahoo Groups Links
>
>
>
>

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Mike KC7NOA

1837. Re: [UHFSDR] vhf uhf or UHFSDR

Yahoo group: UHFSDR
Date: 2015-01-26 16:42:56 UTC
From: Mike
Topic: 1832 Message: 1837

Wonder how much a TGA2237 is ... its a 10W wide band amp ....
On 01/26/2015 08:32 AM, Mike Patriot121@... [UHFSDR] wrote:
>
> OK .. im interested in what users are doing about filters and amps ....
>
> mostly for filters at the moment .... for 2m, 1.25m, 70cm ,33cm and
> 23cm ...
>
> If found a pcb bpf for 23cm that looks good ....
>
>
> On 01/26/2015 12:30 AM, Marc OLANIE Marc.olanie@... [UHFSDR]
> wrote:
>>
>> Hi Mike
>>
>> I do, and it's working quite well.
>>
>> I'm not in my shack right now... Can't help you a lot. But as far as
>> I can remember, there is a small adaptation (not even a "mod")
>> concerning the value of the inductance located in the supply of the
>> final MMIC circuit (L1 560 nH). You'll have to dig in the mailing
>> list, a long thread was talking about that.
>>
>> My main UHFSDR board is heavily shielded, V and U amps are in there
>> own shielded enclosure, with their respective bandpass filters.
>>
>> Marc f6itu
>>
>>
>>
>>
>>
>> -----Message d'origine-----
>> De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
>> Envoyé : lundi 26 janvier 2015 08:15
>> À : uhfSDR@yahoogroups.com
>> Objet : [UHFSDR] vhf uhf or UHFSDR
>>
>> So i was wondering this evening ....
>>
>> Who is using there UHFSDR for VHF or UHF operations ?
>>
>> is there any advice ?
>>

```
>>
>> --
>> Mike KC7NOA
>>
>>
>>
>> ------------------------------------
>> Posted by: Mike <patriot121@...>
>> ------------------------------------
>>
>>
>> ------------------------------------
>>
>> Yahoo Groups Links
>>
>>
>>
>
> --
> Mike KC7NOA
>
```

--
Mike KC7NOA

1838. Re: [UHFSDR] vhf uhf or UHFSDR

Yahoo group: UHFSDR
Date: 2015-01-26 16:46:32 UTC
From: Mike
Topic: 1832 Message: 1838

oh , sure ... after i post i find a listing ....

165$ for one ..... wonder if it makes sense to buy one ....

http://www.triquint.com/products/p/TGA2237

On 01/26/2015 08:42 AM, Mike Patriot121@... [UHFSDR] wrote:
>
> Wonder how much a TGA2237 is ... its a 10W wide band amp ....
>
> On 01/26/2015 08:32 AM, Mike Patriot121@... [UHFSDR] wrote:
>>
>> OK .. im interested in what users are doing about filters and amps ....
>>
>> mostly for filters at the moment .... for 2m, 1.25m, 70cm ,33cm and
>> 23cm ...
>>
>> If found a pcb bpf for 23cm that looks good ....
>>
>>
>> On 01/26/2015 12:30 AM, Marc OLANIE Marc.olanie@... [UHFSDR]
>> wrote:
>>>
>>> Hi Mike
>>>
>>> I do, and it's working quite well.
>>>
>>> I'm not in my shack right now... Can't help you a lot. But as far as
>>> I can remember, there is a small adaptation (not even a "mod")
>>> concerning the value of the inductance located in the supply of the
>>> final MMIC circuit (L1 560 nH). You'll have to dig in the mailing
>>> list, a long thread was talking about that.
>>>
>>> My main UHFSDR board is heavily shielded, V and U amps are in there
>>> own shielded enclosure, with their respective bandpass filters.
>>>
>>> Marc f6itu
>>>
>>>
>>>
>>>
>>>
>>> -----Message d'origine-----
>>> De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
>>> Envoyé : lundi 26 janvier 2015 08:15
>>> À : uhfSDR@yahoogroups.com

>>> Objet : [UHFSDR] vhf uhf or UHFSDR
>>>
>>> So i was wondering this evening ....
>>>
>>> Who is using there UHFSDR for VHF or UHF operations ?
>>>
>>> is there any advice ?
>>>
>>>
>>> --
>>> Mike KC7NOA
>>>
>>>
>>>
>>> ---
>>> Posted by: Mike <patriot121@...>
>>> ---
>>>
>>>
>>> ---
>>>
>>> Yahoo Groups Links
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>>>
>>
>> --
>> Mike KC7NOA
>
> --
> Mike KC7NOA
>

--
Mike KC7NOA

1839. RE: [UHFSDR] vhf uhf or UHFSDR

Yahoo group: UHFSDR
Date: 2015-01-26 17:53:35 UTC
From: Silverfox
Topic: 1832 Message: 1839

For a computer controlled filter board you might consider the Mobo kit.

73,

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
Sent: Monday, January 26, 2015 8:47 AM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] vhf uhf or UHFSDR

oh , sure ... after i post i find a listing ....

165$ for one ..... wonder if it makes sense to buy one ....

http://www.triquint.com/products/p/TGA2237

On 01/26/2015 08:42 AM, Mike Patriot121@... [UHFSDR] wrote:

Wonder how much a TGA2237 is ... its a 10W wide band amp ....

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mostly for filters at the moment .... for 2m, 1.25m, 70cm ,33cm and 23cm ...

If found a pcb bpf for 23cm that looks good ....

On 01/26/2015 12:30 AM, Marc OLANIE Marc.olanie@... [UHFSDR] wrote:

Hi Mike

I do, and it's working quite well.

I'm not in my shack right now... Can't help you a lot. But as far as I can remember, there is a small adaptation (not even a "mod") concerning the value of the inductance located in the supply of the final MMIC circuit (L1 560 nH). You'll have to dig in the mailing list, a long thread was talking about that.

My main UHFSDR board is heavily shielded, V and U amps are in there own shielded enclosure, with their respective bandpass filters.

Marc f6itu

-----Message d'origine-----
De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
Envoyé : lundi 26 janvier 2015 08:15
À : uhfSDR@yahoogroups.com
Objet : [UHFSDR] vhf uhf or UHFSDR

So i was wondering this evening ....

Who is using there UHFSDR for VHF or UHF operations ?

is there any advice ?

--
Mike KC7NOA

Posted by: Mike <mailto:patriot121@...> <patriot121@...>

Yahoo Groups Links

--
Mike KC7NOA

--
Mike KC7NOA

--
Mike KC7NOA

No virus found in this message.
Checked by AVG - www.avg.com
Version: 2015.0.5646 / Virus Database: 4273/9002 - Release Date: 01/26/15

1840. Re: [UHFSDR] vhf uhf or UHFSDR

Yahoo group: UHFSDR
Date: 2015-01-26 18:01:18 UTC
From: Mike
Topic: 1832 Message: 1840

can it control 11 different filters ?

Iv tried looked at it before ... information was hard to get.

On 01/26/2015 09:53 AM, 'Silverfox' alan.r.hill@... [UHFSDR] wrote:
>
> For a computer controlled filter board you might consider the Mobo kit.
>
> 73,
>
> Alan - W6ARH
>
> *From:*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
> *Sent:* Monday, January 26, 2015 8:47 AM
> *To:* UHFSDR@yahoogroups.com
> *Subject:* Re: [UHFSDR] vhf uhf or UHFSDR
>
> oh , sure ... after i post i find a listing ....
>
> 165$ for one ..... wonder if it makes sense to buy one ....
>
> http://www.triquint.com/products/p/TGA2237
>
> On 01/26/2015 08:42 AM, Mike Patriot121@msn.com
> <mailto:Patriot121@...> [UHFSDR] wrote:
>
> Wonder how much a TGA2237 is ... its a 10W wide band amp ....
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> On 01/26/2015 08:32 AM, Mike Patriot121@...
> <mailto:Patriot121@...> [UHFSDR] wrote:
>
> OK .. im interested in what users are doing about filters and
> amps ....
>
> mostly for filters at the moment .... for 2m, 1.25m, 70cm
> ,33cm and 23cm ...
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> If found a pcb bpf for 23cm that looks good ....
>
> On 01/26/2015 12:30 AM, Marc OLANIE Marc.olanie@...
> <mailto:Marc.olanie@...> [UHFSDR] wrote:
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> Hi Mike
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> I do, and it's working quite well.

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> I'm not in my shack right now... Can't help you a lot. But
> as far as I can remember, there is a small adaptation (not
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> located in the supply of the final MMIC circuit (L1 560
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> was talking about that.
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> De : UHFSDR@yahoogroups.com
> <mailto:UHFSDR@yahoogroups.com>
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> À : uhfSDR@yahoogroups.com <mailto:uhfSDR@yahoogroups.com>
> Objet : [UHFSDR] vhf uhf or UHFSDR
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> So i was wondering this evening ....
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>
> --
> Mike KC7NOA
>
>
>
> ------------------------------------
> Posted by: Mike <patriot121@...>
> <mailto:patriot121@...>
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> Yahoo Groups Links
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> Version: 2015.0.5646 / Virus Database: 4273/9002 - Release Date: 01/26/15
>
>

--
Mike KC7NOA

1841. RE: [UHFSDR] vhf uhf or UHFSDR

Yahoo group: UHFSDR
Date: 2015-01-26 18:40:22 UTC
From: Silverfox
Topic: 1832 Message: 1841

No. It controls eight at a time but they are easily plug and play and it supports roll your own filters.

Alan

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
Sent: Monday, January 26, 2015 10:01 AM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] vhf uhf or UHFSDR

can it control 11 different filters ?

Iv tried looked at it before ... information was hard to get.

On 01/26/2015 09:53 AM, 'Silverfox' alan.r.hill@gmail.com [UHFSDR] wrote:

For a computer controlled filter board you might consider the Mobo kit.

73,

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
Sent: Monday, January 26, 2015 8:47 AM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] vhf uhf or UHFSDR

oh , sure ... after i post i find a listing ....

165$ for one ..... wonder if it makes sense to buy one ....

http://www.triquint.com/products/p/TGA2237

On 01/26/2015 08:42 AM, Mike Patriot121@... [UHFSDR] wrote:

Wonder how much a TGA2237 is ... its a 10W wide band amp ....

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OK .. im interested in what users are doing about filters and amps ....

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Marc f6itu

-----Message d'origine-----
De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
Envoyé : lundi 26 janvier 2015 08:15
À : uhfSDR@yahoogroups.com
Objet : [UHFSDR] vhf uhf or UHFSDR

So i was wondering this evening ....

Who is using there UHFSDR for VHF or UHF operations ?

is there any advice ?

--
Mike KC7NOA

Posted by: Mike <mailto:patriot121@msn.com> <patriot121@...>

Yahoo Groups Links

--
Mike KC7NOA

--
Mike KC7NOA

--
Mike KC7NOA

No virus found in this message.
Checked by AVG - www.avg.com
Version: 2015.0.5646 / Virus Database: 4273/9002 - Release Date: 01/26/15

--
Mike KC7NOA

No virus found in this message.
Checked by AVG - www.avg.com
Version: 2015.0.5646 / Virus Database: 4273/9002 - Release Date: 01/26/15

1842. Re: [UHFSDR] vhf uhf or UHFSDR

Yahoo group: UHFSDR
Date: 2015-01-26 18:48:34 UTC
From: Mike
Topic: 1832 Message: 1842

the end result -- im looking for is to control normal hf .. 2m, 1.25m,70cm,33cm and 23cm ... maybey even 2.3ghz area ... but 2.3/2.4Ghz is a stretch ..

On 01/26/2015 10:40 AM, 'Silverfox' alan.r.hill@... [UHFSDR] wrote:
>
> No. It controls eight at a time but they are easily plug and play
> and it supports roll your own filters.
>
> Alan
>
> *From:*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
> *Sent:* Monday, January 26, 2015 10:01 AM
> *To:* UHFSDR@yahoogroups.com
> *Subject:* Re: [UHFSDR] vhf uhf or UHFSDR
>
> can it control 11 different filters ?
>
> Iv tried looked at it before ... information was hard to get.
>
>
>
> On 01/26/2015 09:53 AM, 'Silverfox' alan.r.hill@...
> <mailto:alan.r.hill@...> [UHFSDR] wrote:
>
> For a computer controlled filter board you might consider the Mobo
> kit.
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> 73,
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> Alan - W6ARH
>
> *From:*UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> [mailto:UHFSDR@yahoogroups.com]
> *Sent:* Monday, January 26, 2015 8:47 AM
> *To:* UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> *Subject:* Re: [UHFSDR] vhf uhf or UHFSDR
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> oh , sure ... after i post i find a listing ....
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> If found a pcb bpf for 23cm that looks good ....
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>
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> Marc.olanie@... <mailto:Marc.olanie@...>
> [UHFSDR] wrote:
>
> Hi Mike
>
> I do, and it's working quite well.
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> the inductance located in the supply of the final MMIC
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> list, a long thread was talking about that.
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> respective bandpass filters.
>
> Marc f6itu
>
>
>
>
>
> -----Message d'origine-----
> De : UHFSDR@yahoogroups.com
> <mailto:UHFSDR@yahoogroups.com>
> [mailto:UHFSDR@yahoogroups.com]
> Envoyé : lundi 26 janvier 2015 08:15
> À : uhfSDR@yahoogroups.com
> <mailto:uhfSDR@yahoogroups.com>
> Objet : [UHFSDR] vhf uhf or UHFSDR

>
> So i was wondering this evening ....
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>
> --
> Mike KC7NOA
>
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>
> ---
> Posted by: Mike <patriot121@...>
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>
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>
> No virus found in this message.
> Checked by AVG - www.avg.com <http://www.avg.com>

> Version: 2015.0.5646 / Virus Database: 4273/9002 - Release Date:
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>
>
> --
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>
>

--
Mike KC7NOA

1843. RE: [UHFSDR] vhf uhf or UHFSDR

Yahoo group: UHFSDR
Date: 2015-01-26 21:45:17 UTC
From: Marc OLANIE
Topic: 1832 Message: 1843
Attachments: 2 described; binary payloads are missing from this source WARC

Hi

I don’t think the Mobo kit is really adapted for such a system.

Right now, very few Si570 controlers are able to cover the 700 MHz of a « Grade A » (the STM32-sdr is amongst them, the SDR-Widget can’t). An I’m not aware of a firmware that could deal with a full set of HF bands, 50 MHz, 2m, 1.25m and 70 cm (adding 33 and 23 cm transverters adds another layer of band switching, as the UHFSDR cannot directly reach the 33 and 23 cm band).

One of the best and easiest way to do it is the DG8SAQ/PE0FKO system : configurable crossover points depending on the I2C dialog between the microcontroler, the software and an I2C based filter switch. But as far as I know, all the controlers using the DG8SAQ platform (with the crossover filter params) are unable to go over 50 MHz

This feature has to be written by a code pundit. The STM32-SDR team is considering this option, but this feature is not scheduled in a near future. Right now, the UHFSDR with STM32 can just benefit of a 4 bit binary data word… not enough for what you are looking for.

73’

Marc

De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
Envoyé : lundi 26 janvier 2015 19:49
À : UHFSDR@yahoogroups.com
Objet : Re: [UHFSDR] vhf uhf or UHFSDR

the end result -- im looking for is to control normal hf .. 2m, 1.25m,70cm,33cm and 23cm ... maybey even 2.3ghz area ... but 2.3/2.4Ghz is a stretch ..

On 01/26/2015 10:40 AM, 'Silverfox' alan.r.hill@gmail.com<mailto:alan.r.hill@gmail.com> [UHFSDR] wrote:

No. It controls eight at a time but they are easily plug and play and it supports roll your own filters.
Alan

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Sent: Monday, January 26, 2015 10:01 AM
To: UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>
Subject: Re: [UHFSDR] vhf uhf or UHFSDR

can it control 11 different filters ?

Iv tried looked at it before ... information was hard to get.

On 01/26/2015 09:53 AM, 'Silverfox' alan.r.hill@gmail.com<mailto:alan.r.hill@gmail.com> [UHFSDR] wrote:

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Subject: Re: [UHFSDR] vhf uhf or UHFSDR

oh , sure ... after i post i find a listing ....

165$ for one ..... wonder if it makes sense to buy one ....

http://www.triquint.com/products/p/TGA2237

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Wonder how much a TGA2237 is ... its a 10W wide band amp ....
On 01/26/2015 08:32 AM, Mike Patriot121@msn.com<mailto:Patriot121@msn.com> [UHFSDR] wrote:

OK .. im interested in what users are doing about filters and amps ....

mostly for filters at the moment .... for 2m, 1.25m, 70cm ,33cm and 23cm ...

If found a pcb bpf for 23cm that looks good ....

On 01/26/2015 12:30 AM, Marc OLANIE Marc.olanie@decision.fr<mailto:Marc.olanie@decision.fr> [UHFSDR] wrote:

Hi Mike

I do, and it's working quite well.

I'm not in my shack right now... Can't help you a lot. But as far as I can remember, there is a small adaptation (not even a "mod") concerning the value of the inductance located in the supply of the final MMIC circuit (L1 560 nH). You'll have to dig in the mailing list, a long thread was talking about that.

My main UHFSDR board is heavily shielded, V and U amps are in there own shielded enclosure, with their respective bandpass filters.

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Envoyé : lundi 26 janvier 2015 08:15
À : uhfSDR@yahoogroups.com<mailto:uhfSDR@yahoogroups.com>
Objet : [UHFSDR] vhf uhf or UHFSDR

So i was wondering this evening ....

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is there any advice ?

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Mike KC7NOA

Posted by: Mike <patriot121@msn.com><mailto:patriot121@msn.com>

Yahoo Groups Links

--

Mike KC7NOA

--

Mike KC7NOA

--

Mike KC7NOA

No virus found in this message.
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Version: 2015.0.5646 / Virus Database: 4273/9002 - Release Date: 01/26/15

--

Mike KC7NOA

No virus found in this message.
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--

Mike KC7NOA

1844. Re: [UHFSDR] vhf uhf or UHFSDR

Yahoo group: UHFSDR
Date: 2015-01-26 22:36:22 UTC
From: Mike
Topic: 1832 Message: 1844

Nope .. your right ..

and i do believe that the SDR2GO would allow any entry value ....
outside the operating range of the Si570

that's why im trying to get a ubw32 with "alexlee188-UBW-emulator" Alex
Lee ported DG8SAQ/PE0FKO V15.12 firmware working with mplabx & pic32 ..
to add the extra cross over filter points ... and to add the 1/3
sampling once the 700Mhz top end hits for the 33cm and 23cm ....

granted iv never tried 33cm with the uhfsdr ... but since the harmonics
of the Si570 are saposed to be fairly strong, im optimistic that it
would work out ....

I do already have some 915mhz centred filters and as soon as i get a
DG8SAQ/PE0FKO clone working ... ill see how the 33cm works on a uhfsdr ...

my other problem is that i do not have a wide band amp that goes much
above 400mhz .... my CA2818C might make power till 600mhz ... but its
unknown. (came across one that's spec'd from 30Mhz to 2Ghz @10W !!! --
but spendy)

The QRP2000 im using is quite happy with me telling it to go to 700mhz
(1.4Ghz /2) .... and my 100Mhz scope with X10 time base switched on .. I
can see power delivered to a dummy load .... but im sure you can guess
that my TekTronics 2336YA is not calibrated that far from its operating
range ....

Untill some one gets a non-computer platform working with NFM ill
stick to using a micro computer for the I/Q mod/Demod .... An Odroid-X2
if any one was wondering.

Might be the STM32-SDR .. but no word on that front yet.

On 01/26/2015 01:45 PM, Marc OLANIE Marc.olanie@... [UHFSDR] wrote:
>
> Hi
>
> I don’t think the Mobo kit is really adapted for such a system.
>
> Right now, very few Si570 controlers are able to cover the 700 MHz of
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> near future. Right now, the UHFSDR with STM32 can just benefit of a 4
> bit binary data word… not enough for what you are looking for.
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> 73’
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> *De :*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
> *Envoyé :* lundi 26 janvier 2015 19:49
> *À :* UHFSDR@yahoogroups.com
> *Objet :* Re: [UHFSDR] vhf uhf or UHFSDR
>
>
>
> the end result -- im looking for is to control normal hf .. 2m,
> 1.25m,70cm,33cm and 23cm ... maybey even 2.3ghz area ... but
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> On 01/26/2015 10:40 AM, 'Silverfox' alan.r.hill@...
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>
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>
> Alan
>
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> [mailto:UHFSDR@yahoogroups.com]
> *Sent:* Monday, January 26, 2015 10:01 AM
> *To:* UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> *Subject:* Re: [UHFSDR] vhf uhf or UHFSDR
>
> can it control 11 different filters ?
>
> Iv tried looked at it before ... information was hard to get.
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>
> On 01/26/2015 09:53 AM, 'Silverfox' alan.r.hill@...
> <mailto:alan.r.hill@...m> [UHFSDR] wrote:
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> Mobo kit.
>
> 73,
>
> Alan - W6ARH
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> *From:*UHFSDR@yahoogroups.com <mailto:UHFSDR@...m>
> [mailto:UHFSDR@yahoogroups.com]
> *Sent:* Monday, January 26, 2015 8:47 AM
> *To:* UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
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> Marc.olanie@...
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> De : UHFSDR@yahoogroups.com
> <mailto:UHFSDR@yahoogroups.com>
> [mailto:UHFSDR@yahoogroups.com]
> Envoyé : lundi 26 janvier 2015 08:15
> À : uhfSDR@yahoogroups.com
> <mailto:uhfSDR@yahoogroups.com>
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Mike KC7NOA

1845. RE: [UHFSDR] vhf uhf or UHFSDR

Yahoo group: UHFSDR
Date: 2015-01-27 01:25:52 UTC
From: Silverfox
Topic: 1832 Message: 1845

The mobo control program does manage the si570 in any system with I2C control.

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
Sent: Monday, January 26, 2015 1:45 PM
To: UHFSDR@yahoogroups.com
Subject: RE: [UHFSDR] vhf uhf or UHFSDR

Hi

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This feature has to be written by a code pundit. The STM32-SDR team is considering this option, but this feature is not scheduled in a near future. Right now, the UHFSDR with STM32 can just benefit of a 4 bit binary data word… not enough for what you are looking for.

73’

Marc

De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
Envoyé : lundi 26 janvier 2015 19:49
À : UHFSDR@yahoogroups.com
Objet : Re: [UHFSDR] vhf uhf or UHFSDR

the end result -- im looking for is to control normal hf .. 2m, 1.25m,70cm,33cm and 23cm ... maybey even 2.3ghz area ... but 2.3/2.4Ghz is a stretch ..

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Envoyé : lundi 26 janvier 2015 08:15
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Posted by: Mike <mailto:patriot121@...> <patriot121@...>

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1846. RE: [UHFSDR] vhf uhf or UHFSDR

Yahoo group: UHFSDR
Date: 2015-01-27 01:27:08 UTC
From: Silverfox
Topic: 1832 Message: 1846

The SI570 in the UHFSDR is about as good as you can get. It is far better than those in the softrocks.

Alan

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
Sent: Monday, January 26, 2015 2:36 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] vhf uhf or UHFSDR

Nope .. your right ..

and i do believe that the SDR2GO would allow any entry value .... outside the operating range of the Si570

that's why im trying to get a ubw32 with "alexlee188-UBW-emulator" Alex Lee ported DG8SAQ/PE0FKO V15.12 firmware working with mplabx & pic32 .. to add the extra cross over filter points ... and to add the 1/3 sampling once the 700Mhz top end hits for the 33cm and 23cm ....

granted iv never tried 33cm with the uhfsdr ... but since the harmonics of the Si570 are saposed to be fairly strong, im optimistic that it would work out ....

I do already have some 915mhz centred filters and as soon as i get a DG8SAQ/PE0FKO clone working ... ill see how the 33cm works on a uhfsdr ...

my other problem is that i do not have a wide band amp that goes much above 400mhz .... my CA2818C might make power till 600mhz ... but its unknown. (came across one that's spec'd from 30Mhz to 2Ghz @10W !!! -- but spendy)

The QRP2000 im using is quite happy with me telling it to go to 700mhz (1.4Ghz /2) .... and my 100Mhz scope with X10 time base switched on .. I can see power delivered to a dummy load .... but im sure you can guess that my TekTronics 2336YA is not calibrated that far from its operating range ....

Untill some one gets a non-computer platform working with NFM .... ill stick to using a micro computer for the I/Q mod/Demod .... An Odroid-X2 if any one was wondering.

Might be the STM32-SDR .. but no word on that front yet.

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This feature has to be written by a code pundit. The STM32-SDR team is considering this option, but this feature is not scheduled in a near future. Right now, the UHFSDR with STM32 can just benefit of a 4 bit binary data word… not enough for what you are looking for.

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Envoyé : lundi 26 janvier 2015 19:49
À : UHFSDR@yahoogroups.com
Objet : Re: [UHFSDR] vhf uhf or UHFSDR

the end result -- im looking for is to control normal hf .. 2m, 1.25m,70cm,33cm and 23cm ... maybey even 2.3ghz area ... but 2.3/2.4Ghz is a stretch ..

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Subject: Re: [UHFSDR] vhf uhf or UHFSDR

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Envoyé : lundi 26 janvier 2015 08:15
À : uhfSDR@yahoogroups.com
Objet : [UHFSDR] vhf uhf or UHFSDR

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Who is using there UHFSDR for VHF or UHF operations ?

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Posted by: Mike <mailto:patriot121@...> <patriot121@...>

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1847. RE: [UHFSDR] vhf uhf or UHFSDR

Yahoo group: UHFSDR
Date: 2015-01-27 10:36:28 UTC
From: Marc OLANIE
Topic: 1832 Message: 1847
Attachments: 2 described; binary payloads are missing from this source WARC

Yep, agreed Mike
In fact, that’s what I’m using right now. But the USB Bit Whacker is mostly considered as a scary thing. It’s austere lack of « human interface » and cryptic use discourage most of hams. (my UBW is a chunk of Dave’s 995x QSD board that uses the same kind of PIC). Alex’s code is definitely perfect. Wish I could add a simple LCD interface and optical encoder, but my programming skill is equal to the inverse of infinity :- (
For the output stage, I had the chance to find a professionnal wide band amp made with 3 Motorola hybrid circuits, delivering 35 / 37 dBm from 3 to 1500 MHz. Far enough to drive a couple of Mitsubishi « M series » hybrid for V and Uhf and a G6ALU for HF bands
Anyhow, if you succeed driving your UHFSDR inboth ½ and 1/3 sampling mode with a full fledge filter set, I’m pretty sure a lot of UHFSDR users will be concerned

@alan : you’re definitely right, Alan. But you must admit that pluging the Mobo on a UHFSDR is not a cakewalk. Too much wires, too much risks of interfering signals. And Alex’s and Loftur’s firmware cannot display the right working frequency over 99.99 MHz. It’s a pure cosmetic problem, but a important one from my opinion (the Widget using the « unified firmware » has the very same limitation). This display limitation is unknown to SDR2Go and STM32-SDR familly, but the switching functions are limited (not enough bands, no crossover choice). The « perfect interface » is yet to be developped :-))
Wish I could have a 1/1296 MHz UHFSDR with a nice 200 kHz waterfall bandscope and frequency display, an integrated SSB/FM modulation-demodulation processor, a I2C configurable filter command, a plain I/Q output (for QRA/computer based demodulation and control) and dual RX capabilities.

Marc f6itu

De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
Envoyé : mardi 27 janvier 2015 02:27
À : UHFSDR@yahoogroups.com
Objet : RE: [UHFSDR] vhf uhf or UHFSDR

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1848. Re: [UHFSDR] vhf uhf or UHFSDR

Yahoo group: UHFSDR
Date: 2015-01-27 15:40:54 UTC
From: Mike
Topic: 1832 Message: 1848

Marc ...

what wide band part did you use?

I just got my response from TriQuint .. i tried to get a sample of TGA2237 -- they said no ... it cost to much ... HA !!! that's what i said too !!!!

On 01/27/2015 02:36 AM, Marc OLANIE Marc.olanie@... [UHFSDR] wrote:
>
> Yep, agreed Mike
>
> In fact, that’s what I’m using right now. But the USB Bit Whacker is
> mostly considered as a scary thing. It’s austere lack of « human
> interface » and cryptic use discourage most of hams. (my UBW is a
> chunk of Dave’s 995x QSD board that uses the same kind of PIC). Alex’s
> code is definitely perfect. Wish I could add a simple LCD interface
> and optical encoder, but my programming skill is equal to the inverse
> of infinity :- (
>
> For the output stage, I had the chance to find a professionnal wide
> band amp made with 3 Motorola hybrid circuits, delivering 35 / 37 dBm
> from 3 to 1500 MHz. Far enough to drive a couple of Mitsubishi « M
> series » hybrid for V and Uhf and a G6ALU for HF bands
>
> Anyhow, if you succeed driving your UHFSDR inboth ½ and 1/3 sampling
> mode with a full fledge filter set, I’m pretty sure a lot of UHFSDR
> users will be concerned
>
> @alan : you’re definitely right, Alan. But you must admit that pluging
> the Mobo on a UHFSDR is not a cakewalk. Too much wires, too much risks
> of interfering signals. And Alex’s and Loftur’s firmware cannot
> display the right working frequency over 99.99 MHz. It’s a pure
> cosmetic problem, but a important one from my opinion (the Widget
> using the « unified firmware » has the very same limitation). This
> display limitation is unknown to SDR2Go and STM32-SDR familly, but the
> switching functions are limited (not enough bands, no crossover
> choice). The « perfect interface » is yet to be developped :-))
>
> Wish I could have a 1/1296 MHz UHFSDR with a nice 200 kHz waterfall
> bandscope and frequency display, an integrated SSB/FM
> modulation-demodulation processor, a I2C configurable filter command,
> a plain I/Q output (for QRA/computer based demodulation and control)
> and dual RX capabilities.
>
> Marc f6itu

>
> *De :*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
> *Envoyé :* mardi 27 janvier 2015 02:27
> *À :* UHFSDR@yahoogroups.com
> *Objet :* RE: [UHFSDR] vhf uhf or UHFSDR
>
>
>
>
> The SI570 in the UHFSDR is about as good as you can get. It is far
> better than those in the softrocks.
>
> Alan
>
> *From:*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
> *Sent:* Monday, January 26, 2015 2:36 PM
> *To:* UHFSDR@yahoogroups.com
> *Subject:* Re: [UHFSDR] vhf uhf or UHFSDR
>
> Nope .. your right ..
>
> and i do believe that the SDR2GO would allow any entry value ....
> outside the operating range of the Si570
>
> that's why im trying to get a ubw32 with "alexlee188-UBW-emulator"
> Alex Lee ported DG8SAQ/PE0FKO V15.12 firmware working with mplabx &
> pic32 .. to add the extra cross over filter points ... and to add the
> 1/3 sampling once the 700Mhz top end hits for the 33cm and 23cm ....
>
> granted iv never tried 33cm with the uhfsdr ... but since the
> harmonics of the Si570 are saposed to be fairly strong, im optimistic
> that it would work out ....
>
> I do already have some 915mhz centred filters and as soon as i get a
> DG8SAQ/PE0FKO clone working ... ill see how the 33cm works on a uhfsdr ...
>
> my other problem is that i do not have a wide band amp that goes much
> above 400mhz .... my CA2818C might make power till 600mhz ... but its
> unknown. (came across one that's spec'd from 30Mhz to 2Ghz @10W !!! --
> but spendy)
>
> The QRP2000 im using is quite happy with me telling it to go to 700mhz
> (1.4Ghz /2) .... and my 100Mhz scope with X10 time base switched on ..
> I can see power delivered to a dummy load .... but im sure you can
> guess that my TekTronics 2336YA is not calibrated that far from its
> operating range ....
>
>
> Untill some one gets a non-computer platform working with NFM ill
> stick to using a micro computer for the I/Q mod/Demod .... An

> Odroid-X2 if any one was wondering.
>
> Might be the STM32-SDR .. but no word on that front yet.
>
> On 01/26/2015 01:45 PM, Marc OLANIE Marc.olanie@...
> <mailto:Marc.olanie@...> [UHFSDR] wrote:
>
> Hi
>
> I don’t think the Mobo kit is really adapted for such a system.
>
> Right now, very few Si570 controlers are able to cover the 700 MHz
> of a « Grade A » (the STM32-sdr is amongst them, the SDR-Widget
> can’t). An I’m not aware of a firmware that could deal with a full
> set of HF bands, 50 MHz, 2m, 1.25m and 70 cm (adding 33 and 23 cm
> transverters adds another layer of band switching, as the UHFSDR
> cannot directly reach the 33 and 23 cm band).
>
> One of the best and easiest way to do it is the DG8SAQ/PE0FKO
> system : configurable crossover points depending on the I2C dialog
> between the microcontroler, the software and an I2C based filter
> switch. But as far as I know, all the controlers using the
> DG8SAQ platform (with the crossover filter params) are unable to
> go over 50 MHz
>
> This feature has to be written by a code pundit. The STM32-SDR
> team is considering this option, but this feature is not scheduled
> in a near future. Right now, the UHFSDR with STM32 can just
> benefit of a 4 bit binary data word… not enough for what you are
> looking for.
>
> 73’
>
> Marc
>
> *De :*UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> [mailto:UHFSDR@yahoogroups.com]
> *Envoyé :* lundi 26 janvier 2015 19:49
> *À :* UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> *Objet :* Re: [UHFSDR] vhf uhf or UHFSDR
>
>
>
> the end result -- im looking for is to control normal hf .. 2m,
> 1.25m,70cm,33cm and 23cm ... maybey even 2.3ghz area ... but
> 2.3/2.4Ghz is a stretch ..
>
> On 01/26/2015 10:40 AM, 'Silverfox' alan.r.hill@...
> <mailto:alan.r.hill@...> [UHFSDR] wrote:
>

> No. It controls eight at a time but they are easily plug and
> play and it supports roll your own filters.
>
> Alan
>
> *From:*UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> [mailto:UHFSDR@yahoogroups.com]
> *Sent:* Monday, January 26, 2015 10:01 AM
> *To:* UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> *Subject:* Re: [UHFSDR] vhf uhf or UHFSDR
>
> can it control 11 different filters ?
>
> Iv tried looked at it before ... information was hard to get.
>
>
>
>
> On 01/26/2015 09:53 AM, 'Silverfox' alan.r.hill@...
> <mailto:alan.r.hill@...> [UHFSDR] wrote:
>
> For a computer controlled filter board you might consider
> the Mobo kit.
>
> 73,
>
> Alan - W6ARH
>
> *From:*UHFSDR@yahoogroups.com
> <mailto:UHFSDR@yahoogroups.com>
> [mailto:UHFSDR@yahoogroups.com]
> *Sent:* Monday, January 26, 2015 8:47 AM
> *To:* UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> *Subject:* Re: [UHFSDR] vhf uhf or UHFSDR
>
> oh , sure ... after i post i find a listing ....
>
> 165$ for one ..... wonder if it makes sense to buy one ....
>
> http://www.triquint.com/products/p/TGA2237
>
>
>
> On 01/26/2015 08:42 AM, Mike Patriot121@...
> <mailto:Patriot121@...> [UHFSDR] wrote:
>
> Wonder how much a TGA2237 is ... its a 10W wide band
> amp ....
>
> On 01/26/2015 08:32 AM, Mike Patriot121@...

> <mailto:Patriot121@...> [UHFSDR] wrote:
>
> OK .. im interested in what users are doing about
> filters and amps ....
>
> mostly for filters at the moment .... for 2m,
> 1.25m, 70cm ,33cm and 23cm ...
>
> If found a pcb bpf for 23cm that looks good ....
>
>
>
> On 01/26/2015 12:30 AM, Marc OLANIE
> Marc.olanie@...
> <mailto:Marc.olanie@...> [UHFSDR] wrote:
>
> Hi Mike
>
> I do, and it's working quite well.
>
> I'm not in my shack right now... Can't help
> you a lot. But as far as I can remember, there
> is a small adaptation (not even a "mod")
> concerning the value of the inductance located
> in the supply of the final MMIC circuit (L1
> 560 nH). You'll have to dig in the mailing
> list, a long thread was talking about that.
>
> My main UHFSDR board is heavily shielded, V
> and U amps are in there own shielded
> enclosure, with their respective bandpass
> filters.
>
> Marc f6itu
>
>
>
>
>
> -----Message d'origine-----
> De : UHFSDR@yahoogroups.com
> <mailto:UHFSDR@yahoogroups.com>
> [mailto:UHFSDR@yahoogroups.com]
> Envoyé : lundi 26 janvier 2015 08:15
> À : uhfSDR@yahoogroups.com
> <mailto:uhfSDR@yahoogroups.com>
> Objet : [UHFSDR] vhf uhf or UHFSDR
>
> So i was wondering this evening ....
>

> Who is using there UHFSDR for VHF or UHF
> operations ?
>
> is there any advice ?
>
>
> --
> Mike KC7NOA
>
>
>
> ----------
> Posted by: Mike <patriot121@...>
> <mailto:patriot121@msn.com>
> ----------
>
>
> ----------
>
> Yahoo Groups Links
>
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> --
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> Mike KC7NOA
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> Mike KC7NOA
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>
> Mike KC7NOA
>
> ----------
>

> No virus found in this message.
> Checked by AVG - www.avg.com <http://www.avg.com>
> Version: 2015.0.5646 / Virus Database: 4273/9002 - Release
> Date: 01/26/15
>
>
>
>
> --
>
> Mike KC7NOA
>
> ---
>
> No virus found in this message.
> Checked by AVG - www.avg.com <http://www.avg.com>
> Version: 2015.0.5646 / Virus Database: 4273/9002 - Release
> Date: 01/26/15
>
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> --
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> Mike KC7NOA
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> --
> Mike KC7NOA
>
> ---
>
> No virus found in this message.
> Checked by AVG - www.avg.com <http://www.avg.com>
> Version: 2015.0.5646 / Virus Database: 4273/9002 - Release Date: 01/26/15
>
>
>
>
>

--
Mike KC7NOA

1849. RE: [UHFSDR] vhf uhf or UHFSDR

Yahoo group: UHFSDR
Date: 2015-01-27 16:58:04 UTC
From: Marc OLANIE
Topic: 1832 Message: 1849

>Marc ...

>what wide band part did you use?
The linear amp. This RF block is made with three Motorola hybrid bricks (two in parallel acting as a driver, one in « final » stage). The whole thing needs a 24 V power supply.
This amp was formerly used in a TV broacasting system.
The power output is strong enough to drive a medium power narrow band amp (2x 70 W hybrid Mitsubishi for the 2m and 70cm, and probably a G6ALU 150 W push-pull or equivalent, not yet decided)
73'
Marc

1850. Re: [UHFSDR] vhf uhf or UHFSDR

Yahoo group: UHFSDR
Date: 2015-01-27 17:20:15 UTC
From: Mike
Topic: 1832 Message: 1850

I see ... how much did they all cost ...?

the Triquint TGA2237 cost 160$(usd) and can output 10W .... i figure 7W should be plenty linear and its spec'd / rated from 30Mhz to 2.5Ghz ... and i bet it will work just fine down to 160M .. just need to reduce the drive as the gain get's high ....

Im still looking for cost effective solutions ...

AQRP 20W(pep) amp was 55$
2M amp = ?? 50 or more
1.25M amp = ?? 100 or more
70CM amp = 50$ or more

that's 250$ with 33cm 23cm still to go ...

Im tempted to get a Triquint TGA2237

and Triquint TGA2237 needs no input out transformers .... though a switched Drain RFC that's made for the specific band spread .... im sure that one will not make good power from 160M up to 2.5Ghz ...

n 01/27/2015 08:58 AM, Marc OLANIE Marc.olanie@... [UHFSDR] wrote:
>
>
> >Marc ...
>
> >what wide band part did you use?
>
> The linear amp. This RF block is made with three Motorola hybrid
> bricks (two in parallel acting as a driver, one in « final » stage).
> The whole thing needs a 24 V power supply. This amp was formerly used
> in a TV broacasting system.
>
> The power output is strong enough to drive a medium power narrow band
> amp (2x 70 W hybrid Mitsubishi for the 2m and 70cm, and probably a
> G6ALU 150 W push-pull or equivalent, not yet decided)
>
> 73’
>
> Marc
>
>

--
Mike KC7NOA

1851. Attiny85 programming usbtinyisp help please

Yahoo group: UHFSDR
Date: 2015-02-07 12:55:53 UTC
From: sebmanley@...
Topic: 1851 Message: 1851

hi all i have just finished building my uhfsdr board now i am trying to make a usb interface copying circuit from softrock circuit works because i have taken out attiny85 from softrock and pc reconises it i have a blank attiny85 tryed to flash .hex file with command below put chip in board pc wont reconise it any help would be great maybe fuses etc cheers seb (M3FTE)

```
C:\>avrdude -c usbtiny -p t85 -U flash:w:attiny1512.hex:i
avrdude: AVR device initialized and ready to accept instructions
Reading | ################################################## | 100% 0.03s
avrdude: Device signature = 0x1e930b
avrdude: NOTE: FLASH memory has been specified, an erase cycle will be performed
To disable this feature, specify the -D option.
avrdude: erasing chip
avrdude: reading input file "attiny1512.hex"
avrdude: writing flash (5112 bytes):
Writing | ################################################## | 100% 4.09s

avrdude: 5112 bytes of flash written
avrdude: verifying flash memory against attiny1512.hex:
avrdude: load data flash data from input file attiny1512.hex:
avrdude: input file attiny1512.hex contains 5112 bytes
avrdude: reading on-chip flash data:
Reading | ################################################## | 100% 3.00s

avrdude: verifying ...
avrdude: 5112 bytes of flash verified
avrdude: safemode: Fuses OK
avrdude done. Thank you.
```

1852. Re: Attiny85 programming usbtinyisp help please

Yahoo group: UHFSDR
Date: 2015-02-07 13:25:21 UTC
From: Stephen Farthing
Topic: 1851 Message: 1852

Hi,

If I understand it rightly you had an already programmed ATTiny85 and tried to reprogram it?

If this is true then I think the problem that you have is that because the ATTiny 85 has already been programmed you cannot reprogram it using a low voltage programmer, such as the AVRISP11, because the pins used for programming have been disabled to allow them to be used by the ATTiny85 for other things. This is a real curse and the reason why I never use them in hobby projects myself. To reset the chip so you can reprogram it you need a high voltage programmer such as the AVR dragon, or one of the many DIY designs on the net.

There is an article here http://pe0fko.nl/Fuse-restore/ which explains more.

Hope this helps,

Steve G0XAR

1853. Re: Attiny85 programming usbtinyisp help please

Yahoo group: UHFSDR
Date: 2015-02-07 13:55:50 UTC
From: sebmanley@...
Topic: 1851 Message: 1853

hi steve thanks for your reply i have a blank attiny85 that i wish to program the other 1 i stole from my already built softrock. I tryed to program it but avrdude said it was done but when i connected it to pc it didnt work. cheers seb

1854. Re: [UHFSDR] Re: Attiny85 programming usbtinyisp help please

Yahoo group: UHFSDR
Date: 2015-02-07 14:02:55 UTC
From: Stephen Farthing
Topic: 1851 Message: 1854

Hi Seb,
I am not familiar with AVRDude, I gather it is pretty widely used though.
For most work I use AVRStudio and GCC on a PC and an AVRISPMk2 programmer.
For resetting fuses I use an AVR Dragon. I never had much luck with DIY
programmers. I think with micro controller programming it is enough to
focus on just that and buy stuff in, like the AVRISP which IIRR was £23.00
to handle the donkey work. The AVRStudio and GCC are free and very good.

Anyway, good luck with the project.

Regards,

Steve G0XAR

On 7 February 2015 at 13:55, sebmanley@... [UHFSDR] <
UHFSDR@yahoogroups.com> wrote:

>
>
>
> hi steve thanks for your reply i have a blank attiny85 that i wish to
> program the other 1 i stole from my already built softrock. I tryed to
> program it but avrdude said it was done but when i connected it to pc it
> didnt work. cheers seb
>
>

1855. Re: [UHFSDR] Re: Attiny85 programming usbtinyisp help please

Yahoo group: UHFSDR
Date: 2015-02-07 17:42:17 UTC
From: Glen Overby
Topic: 1851 Message: 1855

On Sat, Feb 7, 2015 at 7:55 AM, sebmanley@... [UHFSDR] <
UHFSDR@yahoogroups.com> wrote:

> hi steve thanks for your reply i have a blank attiny85 that i wish to
> program the other 1 i stole from my already built softrock. I tryed to
> program it but avrdude said it was done but when i connected it to pc it
> didnt work. cheers seb
>

The chip you got from the Softrock has the programming fuse blown, so that
it cannot be reprogrammed. Blowing the programming fuse makes the reset
line available for use as a regular I/O pin, and the Softrock uses that pin.

You can reset the programming fuse and reuse the chip with a high-voltage
programmer. A google search for "avr programmer high voltage" came up with
this project:

http://www.simpleavr.com/avr/hvsp-fuse-resetter

which is what you need. After resetting the fuse, you can use your
existing programmer.

Glen, kc0iyt

1856. Re: [UHFSDR] Re: Attiny85 programming usbtinyisp help please

Yahoo group: UHFSDR
Date: 2015-02-07 18:23:34 UTC
From: sebmanley@...
Topic: 1851 Message: 1856

ok guys thanks looks like i need to make a high voltage programmer thank for your input

1857. Re: [UHFSDR] Re: Attiny85 programming usbtinyisp help please

Yahoo group: UHFSDR
Date: 2015-02-07 18:27:53 UTC
From: John
Topic: 1851 Message: 1857

From: mailto:UHFSDR@yahoogroups.com
Sent: Saturday, February 07, 2015 5:42 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: Attiny85 programming usbtinyisp help please

On Sat, Feb 7, 2015 at 7:55 AM, sebmanley@... [UHFSDR] <UHFSDR@yahoogroups.com> wrote:

hi steve thanks for your reply i have a blank attiny85 that i wish to program the other 1 i stole
from my already built softrock. I tryed to program it but avrdude said it was done but when i
connected it to pc it didnt work. cheers seb

The chip you got from the Softrock has the programming fuse blown, so that it cannot be reprogrammed. Blowing the programming fuse makes the reset line available for use as a regular I/O
pin, and the Softrock uses that pin.

You can reset the programming fuse and reuse the chip with a high-voltage programmer. A google
search for "avr programmer high voltage" came up with this project:

http://www.simpleavr.com/avr/hvsp-fuse-resetter

which is what you need. After resetting the fuse, you can use your existing programmer.

Glen, kc0iyt

As an alternative, if you have an Arduino board you could try this
http://www.rickety.us/2010/03/arduino-avr-high-voltage-serial-programmer/
One of the comments says “I accidentally programmed the RSTDISBL fuse on my ATtiny85. Your schematic
+ sketch worked great. Unlocked it in a second.”

John G3UGY

1858. Re: [UHFSDR] Re: Attiny85 programming usbtinyisp help please

Yahoo group: UHFSDR
Date: 2015-02-07 19:06:13 UTC
From: Mike
Topic: 1851 Message: 1858

The one thing i don't understand ...

your not saposed to be able to reprogram a softrock AVR without a high voltage programmer .... so it should be unchanged.

perhapse you did some thing else .. maybe plug the AVR in backwards ..??

I could be off in left field too ...

On 02/07/2015 10:23 AM, sebmanley@... [UHFSDR] wrote:
>
> ok guys thanks looks like i need to make a high voltage programmer
> thank for your input
>
>

--
Mike KC7NOA

1859. Re: [UHFSDR] Re: Attiny85 programming usbtinyisp help please

Yahoo group: UHFSDR
Date: 2015-02-11 12:17:06 UTC
From: sebmanley@...
Topic: 1851 Message: 1859

working with this line i didnt set fuses for future ref cheers all

```
avrdude -c usbtiny -p t85 e -U flash:w:attiny1512.hex:i -U lfuse:w:0xE1:m -U
hfuse:w:0xDD:m -V
```

1860. CFGSR

Yahoo group: UHFSDR
Date: 2015-02-15 01:31:55 UTC
From: tomm1111@...
Topic: 1860 Message: 1860

I have a problem with CFGSR program recognizing/controlling the Si570. I build a USB interface and programmed the AVR chip. When I connect the USB interface to my computer and load the CFGSR software it immediately recognized the AVR chip. However, it doesn't recognize the Si570 used and cannot control it.

Any suggestions on how to fix welcome.

Tom

1861. Re: [UHFSDR] CFGSR

Yahoo group: UHFSDR
Date: 2015-02-15 04:59:06 UTC
From: Mike
Topic: 1860 Message: 1861

Do you see SLC SLA activity?

did you enter the correct startup freq of your Si570 and the correct crystal frequency?

I think CFGSR can query the chips now ... if loaded V15.11 or higher firmware to AVR ...

check pull up resistors, connections to Si570

On 02/14/2015 05:31 PM, tomm1111@hotmail.com [UHFSDR] wrote:
>
> I have a problem with CFGSR program recognizing/controlling the
> Si570. I build a USB interface and programmed the AVR chip. When I
> connect the USB interface to my computer and load the CFGSR software
> it immediately recognized the AVR chip. However, it doesn't recognize
> the Si570 used and cannot control it.
>
> Any suggestions on how to fix welcome.
>
> Tom
>
>

--
Mike KC7NOA

1862. Re: [UHFSDR] CFGSR

Yahoo group: UHFSDR
Date: 2015-02-15 18:29:42 UTC
From: tomm1111@...
Topic: 1860 Message: 1862

Thanks for the reply. Yes, I can see SLC and SLA activity on both the UHFSDR and the USB interface. However, CFGSDR (v15.11) cannot query the Si570. I will check the start up frequency.

I may try to reprogram the AVR. I programmed it with an arduino.

Tom

1863. Re: [UHFSDR] CFGSR

Yahoo group: UHFSDR
Date: 2015-02-16 04:00:54 UTC
From: tomm1111@...
Topic: 1860 Message: 1863

I just ordered a programmed AVR from Cecil, K5NWA at the Parts Place. I will pop that in and see if it will recognize the Si570.

1864. Re: [UHFSDR] CFGSR

Yahoo group: UHFSDR
Date: 2015-02-16 04:58:43 UTC
From: Mike
Topic: 1860 Message: 1864

let us know how it goes ..

On 02/15/2015 08:00 PM, tomm1111@... [UHFSDR] wrote:
>
> I just ordered a programmed AVR from Cecil, K5NWA at the Parts Place.
> I will pop that in and see if it will recognize the Si570.
>
>

--
Mike KC7NOA

1865. Re: [UHFSDR] CFGSR

Yahoo group: UHFSDR
Date: 2015-02-22 23:36:11 UTC
From: tomm1111@...
Topic: 1860 Message: 1865

The new AVR arrived (Thanks Cecil!), but the result is the same. CFGSR does not recognize my Si570.

I think I figured out, but I don't know what to do about it. When I get to this in the assembly manual the voltage does not drop at all.

45.Verify H1-3 < 0.5V (0.82V reading is OK as discussed in forum)

Does this indicate a bad ADUM1251? Not sure what else to test at this point.

73,
Tom
KK6JOK

1866. Re: [UHFSDR] CFGSR

Yahoo group: UHFSDR
Date: 2015-02-23 01:21:58 UTC
From: Mike
Topic: 1860 Message: 1866

the ADUM1251 is easy to test ....

ground the input to one ... either SLA SDA and the output should go low ....

you can ground the output and the input should go low too ...

i would hope you have the proper pull up resistors installed ....

On 02/22/2015 03:36 PM, tomm1111@... [UHFSDR] wrote:
>
> The new AVR arrived (Thanks Cecil!), but the result is the same.
> CFGSR does not recognize my Si570.
>
> I think I figured out, but I don't know what to do about it. When I
> get to this in the assembly manual the voltage does not drop at all.
>
> 45.Verify H1-3 < 0.5V (0.82V reading is OK as discussed in forum)
>
>
> Does this indicate a bad ADUM1251? Not sure what else to test at this
> point.
>
> 73,
> Tom
> KK6JOK
>

--
Mike KC7NOA

1867. Re: [UHFSDR] CFGSR

Yahoo group: UHFSDR
Date: 2015-02-25 06:43:07 UTC
From: tomm1111@...
Topic: 1860 Message: 1867

Thanks Mike. Based on your guidance for testing the ADUM1251 I confirmed that it was the problem. I just ordered a new one to replace.

Thanks,
Tom

1868. Re: [UHFSDR] CFGSR

Yahoo group: UHFSDR
Date: 2015-02-25 16:06:27 UTC
From: Mike
Topic: 1860 Message: 1868

Kinda odd that the ADUM1251 went bad ... its an isolator and its saposed
to be rugged

your the second person that i know of that had a ADUM1251 go bad ....
I was the first for me ...

On 02/24/2015 10:43 PM, tomm1111@hotmail.com [UHFSDR] wrote:
>
> Thanks Mike. Based on your guidance for testing the ADUM1251 I
> confirmed that it was the problem. I just ordered a new one to replace.
>
> Thanks,
> Tom
>
>

--
Mike KC7NOA

1869. The New Guy

Yahoo group: UHFSDR
Date: 2015-02-26 01:47:16 UTC
From: jimemack2000@...
Topic: 1869 Message: 1869

Hello,

My name is Jim and I am always interested in building radios. The only commercial "true" kits out there that are worthwhile building to me are the K2 and Sienna. I have an unbuilt K2 with "the works" waiting for me to build. I will probably buy the Sienna, as well. Most other commercial kits provide you with SMDs already mounted and soldered. I'm not interested in partial kits - I have built over 50 Heathkits and don't want any help building. I have a full set of surface-mount tools and can handle any job.

Lately, I've gotten into independent designs like yours and am presently working on the M0NKA and SDR Cube. What I like about them is that they are challenging. Soldering an STM32F405VGT6, LQFP100 package is not for the faint-of-heart, but it is very satisfying and makes me feel alive! By the way, it worked the first time!

What I would like to know is of this project is like that. Also, where do I start? What is the latest and greatest version(s)? Etc, etc, etc.

Thank you for any help you can give,
Jim
WI0Q

1870. Re: [UHFSDR] The New Guy

Yahoo group: UHFSDR
Date: 2015-02-26 04:24:13 UTC
From: Dave
Topic: 1869 Message: 1870

Jim:
You can access schematics and parts from my for-sale page at
<http://wb6dhw.com/For_Sale.html#UHFSDR>
The board is mostly surface mount. Most are sm0805. The IC's are
soic and ssoc.
I sell a mini kit with the harder to find components except the Si570(I
don't include it because there are several speed variations).

*Alan - W6ARH is selling a full kit including the PCB, Si570(1400 MHz
version), and all PCB parts. Contact Alan at <alan.r.hill@...>*

The UHFSDR is a low power(20- 100 mW) exciter, so you will need an
amplifier. The Si570 needs to be connected to a computer through a
parallel port or some interface board. The USBIC board I sell is
designed for that purpose. The UHFSDR can use most any of the SDR programs.
The frequency range is 1/2 of the frequency of the Si570.
You will also need a bpf for the receiver and a lpf for the transmitter.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/25/2015 5:47 PM, jimemack2000@... [UHFSDR] wrote:
>
> Hello,
>
> My name is Jim and I am always interested in building radios. The only
> commercial "true" kits out there that are worthwhile building to me
> are the K2 and Sienna. I have an unbuilt K2 with "the works" waiting
> for me to build. I will probably buy the Sienna, as well. Most other
> commercial kits provide you with SMDs already mounted and soldered.
> I'm not interested in partial kits - I have built over 50 Heathkits
> and don't want any help building. I have a full set of surface-mount
> tools and can handle any job.
>
> Lately, I've gotten into independent designs like yours and am
> presently working on the M0NKA and SDR Cube. What I like about them is
> that they are challenging. Soldering an STM32F405VGT6, LQFP100 package
> is not for the faint-of-heart, but it is very satisfying and makes me
> feel alive! By the way, it worked the first time!
>
> What I would like to know is of this project is like that. Also, where
> do I start? What is the latest and greatest version(s)? Etc, etc, etc.
>
> Thank you for any help you can give,
> Jim
> WI0Q

>
>
>

1871. Re: [UHFSDR] Re: Interesting Discussion on SDR

Yahoo group: UHFSDR
Date: 2015-02-26 13:01:28 UTC
From: Sid Boyce
Topic: 1747 Message: 1871
Attachments: 1 described; binary payloads are missing from this source WARC

Update on Hermes-Lite.
I have 2 built, one working and one I have to troubleshoot. Everything
on the second one looks OK but I'm not getting off air signals.

The first one works exceedingly well and when put up against Hermes it's
a revelation as to what you can do with this DDC/DUC rig for $150.

Soon I shall add the 5W PA.

I have a picture on my QRZ.com page and http://g0orx.blogspot.co.uk/
also has a write up.

Noise floor is -120dBm, in this shot the AGC settings were wrong.
73 ... Sid.

On 24/08/14 21:42, Sid Boyce sboyce@... [UHFSDR] wrote:
>
> Hi Glen,
> I am not sure either but still does a great job.
>
> Rob (KL7NA) has had Hermes-Lite up on internet using ghpsdr3-alex's
> hpsdr-server and dspserver.
> I and several others have hooked up to it and the receiver was thought
> excellent by all.
>
> Day to day use may show up deficiencies but it'll probably still out
> perform any QSD/QSE rig.
> 73 ... Sid.
>
> On 24/08/14 16:09, Glen Overby gpoverby@... [UHFSDR] wrote:
>> ?
>> On Fri, Aug 22, 2014 at 6:22 AM, sbdick@...
>> <mailto:sbdick@...> [UHFSDR] <UHFSDR@yahoogroups.com
>> <mailto:UHFSDR@yahoogroups.com>> wrote:
>>
>> Other interesting developments:There is a Google group
>> (Hermes-Lite) that is developing a board based on the Analog
>> Devices AD9866 which is a low cost "low band" transceiver chip.
>> They are shooting for a very low cost transceiver package, on the
>> order of $150 total including processing. The board is planned to
>> be used with a BeMicro SDK for full compatibility with Hermes
>> software.
>>
>>
>> Interesting project.Â? A while back I found the AD9364 which they

>> developed with Ettus Research (an early gnuradio contributor).Â? The
>> 12-bit A/D doesn't provide a lot of dynamic range, but I see the
>> AD9866 has a programmable gain amplifier of some 42dB.Â? I'm not
>> sure if that will make up the difference between a 12-bit A/D and a
>> 24-bit.
>>
>> Glen, kc0iyt
>>
>
>
> --
> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
> Senior Staff Specialist, Cricket Coach
> Microsoft Windows Free Zone - Linux used for all Computing Tasks
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1872. Re: [UHFSDR] The New Guy

Yahoo group: UHFSDR
Date: 2015-02-27 20:19:07 UTC
From: jimemack2000@...
Topic: 1869 Message: 1872

Hi Dave,

I have decided that this project is not for me. Good luck.

Thank you for your help,
Jim
WI0Q

1873. Re: [UHFSDR] The New Guy

Yahoo group: UHFSDR
Date: 2015-02-27 23:08:16 UTC
From: Sid Boyce
Topic: 1869 Message: 1873

Hi Jim,
If it's a real challenge you are looking for and high performance to go with it, there is the HiQSDR and Preselector/PA units at hiqsdr.com and the openHPSDR gear at openhpsdr.org.

Those projects are available both for self-build or as built-up units.
73 ... Sid.

On 27/02/15 20:19, jimemack2000@... [UHFSDR] wrote:
>
> Hi Dave,
>
> I have decided that this project is not for me. Good luck.
>
> Thank you for your help,
> Jim
> WI0Q
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
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1874. Re: [UHFSDR] The New Guy

Yahoo group: UHFSDR
Date: 2015-02-27 23:25:54 UTC
From: John Williams
Topic: 1869 Message: 1874

Jim,

A bunch of us are having a good time bringing up the Hermes Lite. Google it... Lots of SMT so your skills would be well utilized...

John - AC9HY

On 2/27/2015 5:08 PM, Sid Boyce sboyce@... [UHFSDR] wrote:
>
> Hi Jim,
> If it's a real challenge you are looking for and high performance to
> go with it, there is the HiQSDR and Preselector/PA units at hiqsdr.com
> and the openHPSDR gear at openhpsdr.org.
>
> Those projects are available both for self-build or as built-up units.
> 73 ... Sid.
>
> On 27/02/15 20:19, jimemack2000@... [UHFSDR] wrote:
>>
>> Hi Dave,
>>
>> I have decided that this project is not for me. Good luck.
>>
>> Thank you for your help,
>> Jim
>> WI0Q
>>
>
>
> --
> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
> Senior Staff Specialist, Cricket Coach
> Microsoft Windows Free Zone - Linux used for all Computing Tasks
>

1875. Re: [UHFSDR] The New Guy

Yahoo group: UHFSDR
Date: 2015-02-28 01:03:47 UTC
From: jimemack2000@...
Topic: 1869 Message: 1875

Thank you, John. Hermes was already on my "list"...its priority has just been elevated.

Jim
WI0Q

1876. Re: [UHFSDR] The New Guy

Yahoo group: UHFSDR
Date: 2015-02-28 01:16:03 UTC
From: John Williams
Topic: 1869 Message: 1876

Hermes is in OpenHDSDR and I believe that the only way to get a board is in an ANAN-100 or similar. Hermes Lite is a new implementation where Steve Haynal took a broadband chip and mated it to a inexpensive fpga with code ported from Hermes. Goal is to have software compatibility with OpenHDSDR and provide a cost point is much less than the original Hermes.

We are in Beta now and development is progressing.

https://groups.google.com/forum/#!forum/hermes-lite

John

On 2/27/2015 7:03 PM, jimemack2000@... [UHFSDR] wrote:
>
> Thank you, John. Hermes was already on my "list"...its priority has
> just been elevated.
>
> Jim
> WI0Q
>
>

1877. Re: [UHFSDR] The New Guy

Yahoo group: UHFSDR
Date: 2015-02-28 01:18:25 UTC
From: jimemack2000@...
Topic: 1869 Message: 1877

Thank you, Sid, I'm heading over there right now.

Jim
WI0Q

1879. Re: [UHFSDR] The New Guy

Yahoo group: UHFSDR
Date: 2015-02-28 01:46:56 UTC
From: jimemack2000@...
Topic: 1869 Message: 1879

You're right about "challenge", Sid. I can't even figure out how to order or what is even available to order. Maybe I'll just begin building the K2...at least I already have all the parts!

This emphasizes the common problem with all of these "independent" projects for people like me, who don't really have a lot of time to start from the beginning - no discernible road map to success. Much like starting late with N2PK's VNA, you need to spend a month on research before you can even have an idea where to begin. I don't want to waste my life on research. I want to "jump right in". But, thank you anyway.

No one knows how to effectively document their projects any more, nor do they care. The common answer is to "do a search" through thousands of messages. That is becoming more and more impractical. Have fun trying to have fun.

Jim
WI0Q

1880. RE: [UHFSDR] The New Guy

Yahoo group: UHFSDR
Date: 2015-02-28 08:09:35 UTC
From: Marc OLANIE
Topic: 1869 Message: 1880
Attachments: 2 described; binary payloads are missing from this source WARC

Hi all

@John KE5SSH
« I believe that the only way to get a board is in an ANAN-100 or similar. »
Just to mention. Apache Labs is selling the bare bcp of the 2 models (Angelia and Hermes) for $18 (without S&H fees). Not so expensive if you’re considering it’s a 8 layer board (at least less than the ADC… 100$ apiece :-D). But, as you said, the Hermes Lite is an important project (just to let you see if you are able to solder QFN IC’s. The Hermes boards as around 5 or 6 QFN and the Cyclon itself, a quite big QFP)

@Jim
I have a slightly different point of view concerning these multiple projects. Dave’s UHFSDR has a fantastic assembly manual with a comprehensive step by step debugging guide. Ivan VE3IVM made a « one step website » fort the N2PK and gives a clear index of all the important documents you must read (and at least a full schematic and BOM). Same remark with the extensive documentation of G3XJP’s Picastar, Scotty’s Modula Spectrum Analyzer etc.

I must admit that all these documents do not respond to the « heathkit-like policy » offered by the impressive WB5RVZ « softrock guide » collection. But these nobrainer’s assembly manuals (take a red-red-orange resistor, bend it’s wires, put in at the R22 position) are not what I would call « ham brewing for fun and profit ». You’ll probably have the fun to see your rig running, but you won’t have the profit to really understand how it works. And self-education and understanding is, to my sense, the first goal of hamradio.

Sometime, you’ll have to digg in the heavy documentation of a long-living project. Asking simple questions trigger from time to time a « read the f… manual » sent by angry old-timers of the mailing list. But you’ll also have beginner’s explanations from other people who love to share.

:-)

73’
Marc f6itu

De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
Envoyé : samedi 28 février 2015 02:47
À : UHFSDR@yahoogroups.com
Objet : Re: [UHFSDR] The New Guy

You're right about "challenge", Sid. I can't even figure out how to order or what is even available to order. Maybe I'll just begin building the K2...at least I already have all the parts!

This emphasizes the common problem with all of these "independent" projects for people like me, who don't really have a lot of time to start from the beginning - no discernible road

map to success. Much like starting late with N2PK's VNA, you need to spend a month on research before you can even have an idea where to begin. I don't want to waste my life on research. I want to "jump right in". But, thank you anyway.

No one knows how to effectively document their projects any more, nor do they care. The common answer is to "do a search" through thousands of messages. That is becoming more and more impractical. Have fun trying to have fun.

Jim
WI0Q

1881. Re: [UHFSDR] The New Guy

Yahoo group: UHFSDR
Date: 2015-02-28 08:31:38 UTC
From: John
Topic: 1869 Message: 1881

> No one knows how to effectively document their projects any more, nor do they care. The common
> answer is to "do a search" through thousands of messages. That is becoming more and more
> impractical. > Have fun trying to have fun.
>
> Jim
> WI0Q

I agree strongly on that point. I wish originator of a project would maintain the pool of information so that those who are interested can come up to speed quickly. The idea of using the
Yahoo Neo interface to search and read hundreds or thousands of past messages is not appealing.
Also unless you research thoroughly there is a possibility that you might miss a later modification
/ update in which event you might start building an older version.

John G3UGY

1882. Re: The New Guy

Yahoo group: UHFSDR
Date: 2015-02-28 14:32:57 UTC
From: goofy_36@...
Topic: 1869 Message: 1882

In the case of the Hermes Lite, there is wiki pages that trys to bring all the information together and organize it. Which seems to me to be a pretty good way to go about it. This way it's a group effort and a living document.

David
KBGPM

1883. RE: [UHFSDR] The New Guy

Yahoo group: UHFSDR
Date: 2015-02-28 21:28:37 UTC
From: jimemack2000@...
Topic: 1869 Message: 1883

Sure Marc, if you have the time. I am not opposed to learning and I do understand radio. The problem is all of the different versions of everything like firmware BOMs, etc. that need to be reviewed before even beginning. It can and does take weeks for me to get started and I am not willing to do it anymore.

But, thank you for your input,
Jim
WI0Q

1885. Re: The New Guy

Yahoo group: UHFSDR
Date: 2015-02-28 21:36:23 UTC
From: jimemack2000@...
Topic: 1869 Message: 1885

I will have to look into that one now.

Thanks,
Jim
WI0Q

1886. Re: [UHFSDR] The New Guy

Yahoo group: UHFSDR
Date: 2015-02-28 21:37:26 UTC
From: jimemack2000@...
Topic: 1869 Message: 1886

Yes, yes, that's EXACTLY the problem. How about a list of everything, at least? They could have lists for firmware, BOM, and mod versions. That would greatly improve the process.

I had to create documents for M0NKA before building it, due to the rate of changes happening. That one is a relatively new project (last year), so it was somewhat easier to "catch up". Most of the others have roots from years ago and are time-killers.

Anyway, that's my 2¢

Jim
WI0Q

1887. Re: [UHFSDR] The New Guy

Yahoo group: UHFSDR
Date: 2015-03-01 00:14:32 UTC
From: Sid Boyce
Topic: 1869 Message: 1887

Hi Jim,
I suppose a bit of reading is necessary but cloning Hermes-Lite and Hermes-Lite.wiki contains all the info needed to build the board and program the FPGA.

Most of the parts can be ordered from Digikey, the Samtec connector as a free sample form Samtec.
Arrow stocks the BeMicro CV and the Waveshare Ethernet from Amazon.com.

There are BOM's in the documentation in a form to submit to Digikey.

The SDR software is an issue where you may need help with - PowerSDR (from openhpsdr.org) and HDSDR under Windows.
73 ... Sid.

On 28/02/15 01:45, jimemack2000@... [UHFSDR] wrote:
>
> You're right about "challenge", Sid. I can't even figure out how to
> order or what is even available to order. Maybe I'll just begin
> building the K2...at least I already have all the parts!
>
> This emphasizes the common problem with all of these "independent"
> projects for people like me, who don't really have a lot of time to
> start from the beginning - no discernible road map to success. Much
> like starting late with N2PK's VNA, you need tp spend a month on
> research before you can even have an idea where to begin. I don't want
> to waste my life on research. I want to "jump right in". But, thank
> you anyway.
>
> No one knows how to effectively document their projects any more, nor
> do they care. The common answer is to "do a search" through thousands
> of messages. That is becoming more and more impractical. Have fun
> trying to have fun.
>
> Jim
> WI0Q
>
>
>
> ---In UHFSDR@yahoogroups.com, <sboyce@...> wrote :
>
> Hi Jim,
> If it's a real challenge you are looking for and high performance to
> go with it, there is the HiQSDR and Preselector/PA units at hiqsdr.com
> and the openHPSDR gear at openhpsdr.org.
>

> Those projects are available both for self-build or as built-up units.
> 73 ... Sid.
>
> On 27/02/15 20:19, jimemack2000@... <mailto:jimemack2000@...>
> [UHFSDR] wrote:
>
>> Hi Dave,
>>
>> I have decided that this project is not for me. Good luck.
>>
>> Thank you for your help,
>> Jim
>> WI0Q
>>
>
>
> --
> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
> Senior Staff Specialist, Cricket Coach
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>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
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1888. Re: [UHFSDR] CFGSR

Yahoo group: UHFSDR
Date: 2015-03-01 00:21:24 UTC
From: tomm1111@...
Topic: 1860 Message: 1888

This morning I installed the replacement ADUM1251 and all is well! It is odd that it was bad. Perhaps I got it a little to hot when soldering. Not sure what else can make it fail.

1889. Re: [UHFSDR] The New Guy

Yahoo group: UHFSDR
Date: 2015-03-01 00:42:42 UTC
From: Sid Boyce
Topic: 1869 Message: 1889

Steve has done a sterling job with the documentation and keeps it up to date as well as doing the development, answering emails, all in tow with a day job.

Although there is a lot of documentation, the Hermes-Lite and Hermes-Lite.wiki are not that involved and you don't have to spend an enormous amount of time reading to get familiar.
Even how to program the FPGA is outlined step by step.

It's a developing project and changes will inevitably follow, the 1.21 version is the current one and the 2.0 version is in development.

John, AC9HY is ably taking on the preselector/PA work - clone Steve's github and "git checkout softrock" will switch to his fork.

Likewise IK1XPV's fork (git checkout audiocodec_1) implements a codec board to add sound support.

The latter two projects can be considered some time after Hermes-Lite is up and running and are not absolute necessities. Some guys have added different BPF/LPF's and PA's.
I am looking into using the 100W PA/LPF section from an IC-737 and keenly following John's work.
73 ... Sid.

On 28/02/15 21:35, jimemack2000@... [UHFSDR] wrote:
>
> Yes, yes, that's EXACTLY the problem. How about a list of everything,
> at least? They could have lists for firmware, BOM, and mod versions.
> That would greatly improve the process.
>
> I had to create documents for M0NKA before building it, due to the
> rate of changes happening. That ius relatively new project (last
> year), so it was somewhat easier to "catch up". Most of the others
> have roots from years ago and are time-killers.
>
> Anyway, that's my 2¢
>
> Jim
> WI0Q
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach

Microsoft Windows Free Zone - Linux used for all Computing Tasks

1890. Re: [UHFSDR] CFGSR

Yahoo group: UHFSDR
Date: 2015-03-01 01:04:37 UTC
From: Mike
Topic: 1860 Message: 1890

Glad to hear that your SDR is up and running now ....

On 02/28/2015 04:21 PM, tomm1111@... [UHFSDR] wrote:
>
> This morning I installed the replacement ADUM1251 and all is well! It
> is odd that it was bad. Perhaps I got it a little to hot when
> soldering. Not sure what else can make it fail.
>
>

--
Mike KC7NOA

1891. Re: [UHFSDR] The New Guy

Yahoo group: UHFSDR
Date: 2015-03-01 01:47:58 UTC
From: jimemack2000@...
Topic: 1869 Message: 1891

Unfortunately, I am anti-Google. It's like bedding down with Verizon or Comcast, as far as I'm concerned, so I will not create a Google account, which effectively excludes me from the project.

Thank you anyway,
Jim
WI0Q

1892. Re: [UHFSDR] The New Guy

Yahoo group: UHFSDR
Date: 2015-03-01 15:13:47 UTC
From: jimemack2000@...
Topic: 1869 Message: 1892

...by the way, if you'd like try a new search engine - one that actaually brings back random returns not based on your browsing habit or purchases - this one is the one I use:

https://duckduckgo.com

1893. Re: [UHFSDR] The New Guy

Yahoo group: UHFSDR
Date: 2015-03-01 19:10:50 UTC
From: Sid Boyce
Topic: 1869 Message: 1893

The Hermes-Lite project is hosted free on github and doesn't come with
any lock in.
73 ... Sid.

On 01/03/15 01:47, jimemack2000@... [UHFSDR] wrote:
>
> Unfortunately, I am anti-Google. It's like bedding down with Verizon
> or Comcast, as far as I'm concerned, so I will not create a Google
> account, which effectively excludes me from the project.
>
> Thank you anyway,
> Jim
> WI0Q
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1894. Re: [UHFSDR] The New Guy

Yahoo group: UHFSDR
Date: 2015-03-01 19:27:44 UTC
From: Sid Boyce
Topic: 1869 Message: 1894

Depending on what OS you use, the vendor or more correctly the leasing company also tracks and controls your computer software and open up back doors into your system.

If you buy from Amazon, EBay, etc. they track your purchases, analyse them and present what other purchases you may be interested in whichever search engine you use.
73 ... Sid.

On 01/03/15 15:13, jimemack2000@... [UHFSDR] wrote:
>
> ...by the way, if you'd like try a new search engine - one that
> actaually brings back random returns not based on your browsing habit
> or purchases - this one is the one I use:
>
> https://duckduckgo.com
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1895. Re: [UHFSDR] The New Guy

Yahoo group: UHFSDR
Date: 2015-03-02 02:34:52 UTC
From: jimemack2000@...
Topic: 1869 Message: 1895

That is my point - DuckDuckGo does NOT track you at all. Go read about it:

About DuckDuckGo https://duckduckgo.com/about

https://duckduckgo.com/about

About DuckDuckGo https://duckduckgo.com/about DuckDuckGo has better instant answers, less spam and clutter, and real privacy.

View on duckduckgo.com https://duckduckgo.com/about
Preview by Yahoo

1896. Re: [UHFSDR] The New Guy

Yahoo group: UHFSDR
Date: 2015-03-02 02:36:24 UTC
From: jimemack2000@...
Topic: 1869 Message: 1896

Here is the full story:

DuckDuckGo: the plucky upstart taking on Google with stealth searches http://www.theguardian.com/technology/2014/apr/04/duckduckgo-gabriel-weinberg-secure-searches

http://www.theguardian.com/technology/2014/apr/04/duckduckgo-gabriel-weinberg-secure-searches

DuckDuckGo: the plucky upstart taking on Google wi... http://www.theguardian.com/technology/2014/apr/04/duckduckgo-gabriel-weinberg-secure-searches Gabriel Weinberg launched DuckDuckGo as a search engine that puts privacy first, rather than collecting data for advertisers and security agencies, he tells Alex He...

View on www.theguardian.com http://www.theguardian.com/technology/2014/apr/04/duckduckgo-gabriel-weinberg-secure-searches
Preview by Yahoo

1897. Re: [UHFSDR] The New Guy

Yahoo group: UHFSDR
Date: 2015-03-02 03:25:49 UTC
From: Sid Boyce
Topic: 1869 Message: 1897

Sure, I've read up on it, but that's only the browser, not what happens
when you visit other sites to make purchases using duckduckgo nor does
it eliminate backdoors in-built into certain OS's.
73 ... Sid.

On 02/03/15 02:34, jimemack2000@... [UHFSDR] wrote:
>
> That is my point - DuckDuckGo does NOT track you at all. Go read about it:
>
> About DuckDuckGo <https://duckduckgo.com/about>
>
>
>
>
> image <https://duckduckgo.com/about>
>
>
> About DuckDuckGo <https://duckduckgo.com/about>
> DuckDuckGo has better instant answers, less spam and clutter, and real
> privacy.
>
> View on duckduckgo.com <https://duckduckgo.com/about>
>
> Preview by Yahoo
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1898. Re: [UHFSDR] The New Guy

Yahoo group: UHFSDR
Date: 2015-03-02 05:09:55 UTC
From: jimemack2000@...
Topic: 1869 Message: 1898

It doesn't look very challenging. I'm going to pass on Hermes-Lite.

Thank you, anyway.

Jim
WI0Q

1899. Re: [UHFSDR] The New Guy

Yahoo group: UHFSDR
Date: 2015-03-02 10:50:53 UTC
From: Sid Boyce
Topic: 1869 Message: 1899

OK Jim,
I hear you.

My first receiver after getting my license was a 23 valve double conversion superhet and I have built many other rigs including fully synthesized ones like the one in Ham Radio Today, a long defunct UK magazine. I had to redesign parts using datasheets and a scope to get it working as the author, Frank Ogden, G4OGP didn't intend building it for publishing and had not documented it fully.

I also built the Omega by Tony Bailey, a synthesized rig also published in HRT.

DDC/DUC SDR and even QSD/QSE is more fun than the old steam radios and in its way very challenging if you look beyond the hardware build. Even then 144-pin FPGA's are not for the feint of heart and I certainly wouldn't want to go back to basics designing a 4 or 8 layer PCB as found in my SDR rigs.
Likewise I leave the firmware up to those who understand Verilog better than I.
73 ... Sid.

On 02/03/15 05:09, jimemack2000@... [UHFSDR] wrote:
>
> It doesn't look very challenging. I'm going to pass on Hermes-Lite.
>
> Thank you, anyway.
>
> Jim
> WI0Q
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
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1900. Re: [UHFSDR] The New Guy

Yahoo group: UHFSDR
Date: 2015-03-02 11:03:17 UTC
From: Stephen Farthing
Topic: 1869 Message: 1900

Sid,

I was discussing the Hermes Lite last evening with my pals Jan, G5BBL and Alan M0PUB. Alan has built a Hermes Lite but had to drill the board so that he could mount the cable modem chip which has a heat sink underneath it. As you can imagine doing this on an 8? layer board was a bit nerve racking. I was wondering how you overcame this. I think he ordered his board from OSH Park. However there seems to be another set PCB available from Tindie.

Regards,

Steve G0XAR

On 2 March 2015 at 10:50, Sid Boyce sboyce@blueyonder.co.uk [UHFSDR] <
UHFSDR@yahoogroups.com> wrote:

>
>
> OK Jim,
> I hear you.
>
> My first receiver after getting my license was a 23 valve double
> conversion superhet and I have built many other rigs including fully
> synthesized ones like the one in Ham Radio Today, a long defunct UK
> magazine. I had to redesign parts using datasheets and a scope to get it
> working as the author, Frank Ogden, G4OGP didn't intend building it for
> publishing and had not documented it fully.
>
> I also built the Omega by Tony Bailey, a synthesized rig also published in
> HRT.
>
> DDC/DUC SDR and even QSD/QSE is more fun than the old steam radios and in
> its way very challenging if you look beyond the hardware build. Even then
> 144-pin FPGA's are not for the feint of heart and I certainly wouldn't want
> to go back to basics designing a 4 or 8 layer PCB as found in my SDR rigs.
> Likewise I leave the firmware up to those who understand Verilog better
> than I.
> 73 ... Sid.
>
> On 02/03/15 05:09, jimemack2000@... [UHFSDR] wrote:
>
>
>
> It doesn't look very challenging. I'm going to pass on Hermes-Lite.
>
> Thank you, anyway.

>
> Jim
> WI0Q
>
>
>
> --
> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
> Senior Staff Specialist, Cricket Coach
> Microsoft Windows Free Zone - Linux used for all Computing Tasks
>
>
>

1901. RE: [UHFSDR] The New Guy

Yahoo group: UHFSDR
Date: 2015-03-02 11:34:07 UTC
From: Marc OLANIE
Topic: 1869 Message: 1901
Attachments: 2 described; binary payloads are missing from this source WARC

Steve

the last batch of pcb’s allready have a large hole to solder the gnd
some picture of my « lite »
https://onedrive.live.com/?cid=C6D4906764640C0C&id=C6D4906764640C0C%216860
(and I think it also was the case of the former pcb’s)

there is an active Google group mailing list dedicated to the Hermes Lite
https://groups.google.com/forum/#!forum/hermes-lite

(google groups don’t accept picture :- ( )

73’
Marc f6itu

De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
Envoyé : lundi 2 mars 2015 12:03
À : UHFSDR@yahoogroups.com
Objet : Re: [UHFSDR] The New Guy

Sid,

I was discussing the Hermes Lite last evening with my pals Jan, G5BBL and Alan M0PUB. Alan has built a Hermes Lite but had to drill the board so that he could mount the cable modem chip which has a heat sink underneath it. As you can imagine doing this on an 8? layer board was a bit nerve racking. I was wondering how you overcame this. I think he ordered his board from OSH Park. However there seems to be another set PCB available from Tindie.

Regards,

Steve G0XAR

On 2 March 2015 at 10:50, Sid Boyce
sboyce@blueyonder.co.uk<mailto:sboyce@blueyonder.co.uk> [UHFSDR]
<UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>> wrote:

OK Jim,
I hear you.

My first receiver after getting my license was a 23 valve double conversion superhet and I have built many other rigs including fully synthesized ones like the one in Ham Radio Today, a long defunct UK magazine. I had to redesign parts using datasheets and a scope to get it working as the author, Frank Ogden, G4OGP didn't intend building it for publishing and had not documented it fully.

I also built the Omega by Tony Bailey, a synthesized rig also published in HRT.

DDC/DUC SDR and even QSD/QSE is more fun than the old steam radios and in its way very challenging if you look beyond the hardware build. Even then 144-pin FPGA's are not for the feint of heart and I certainly wouldn't want to go back to basics designing a 4 or 8 layer PCB as found in my SDR rigs.
Likewise I leave the firmware up to those who understand Verilog better than I.
73 ... Sid.

On 02/03/15 05:09, jimemack2000@yahoo.com<mailto:jimemack2000@yahoo.com> [UHFSDR] wrote:

It doesn't look very challenging. I'm going to pass on Hermes-Lite.

Thank you, anyway.

Jim
WI0Q

--

Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot

Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support

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1902. Re: [UHFSDR] The New Guy

Yahoo group: UHFSDR
Date: 2015-03-02 12:32:58 UTC
From: jimemack2000@...
Topic: 1869 Message: 1902

M0NKA is a very satisfying build, although it has some design flaws being ironed out.

Jim
WI0Q

1903. Re: [UHFSDR] The New Guy

Yahoo group: UHFSDR
Date: 2015-03-02 12:51:13 UTC
From: Sid Boyce
Topic: 1869 Message: 1903

I had already soldered the AD9866 to the 1.2 board when Steve mentioned it.

The Hermes-Lite boards are 2-layer.

Steve sent me a 1.21 board which already has the hole drilled and that's
the one I built up first.

Jim Smith told me that oshpark's boards are dearer and they require a
minimum order of three.

I know Jim got his from Tindie and Steve Haynal has also recently got
boards from them, I would think 1.21.
73 ... Sid.

On 02/03/15 11:03, Stephen Farthing squirrox@... [UHFSDR] wrote:
> Sid,
>
> I was discussing the Hermes Lite last evening with my pals Jan, G5BBL
> and Alan M0PUB. Alan has built a Hermes Lite but had to drill the
> board so that he could mount the cable modem chip which has a heat
> sink underneath it. As you can imagine doing this on an 8? layer board
> was a bit nerve racking. I was wondering how you overcame this. I
> think he ordered his board from OSH Park. However there seems to be
> another set PCB available from Tindie.?
>
> Regards,
>
> Steve G0XAR
>
> On 2 March 2015 at 10:50, Sid Boyce sboyce@...
> <mailto:sboyce@...> [UHFSDR] <UHFSDR@yahoogroups.com
> <mailto:UHFSDR@yahoogroups.com>> wrote:
>
> ?
>
> OK Jim,
> I hear you.
>
> My first receiver after getting my license was a 23 valve double
> conversion superhet and I have built many other rigs including
> fully synthesized ones like the one in Ham Radio Today, a long
> defunct UK magazine. I had to redesign parts using datasheets and
> a scope to get it working as the author, Frank Ogden, G4OGP didn't
> intend building it for publishing and had not documented it fully.?
>
> I also built the Omega by Tony Bailey, a synthesized rig also

> published in HRT.
>
> DDC/DUC SDR and even QSD/QSE is more fun than the old steam radios
> and in its way very challenging if you look beyond the hardware
> build. Even then 144-pin FPGA's are not for the feint of heart and
> I certainly wouldn't want to go back to basics designing a 4 or 8
> layer PCB as found in my SDR rigs.
> Likewise I leave the firmware up to those who understand Verilog
> better than I.
> 73 ... Sid.
> ?
> On 02/03/15 05:09, jimemack2000@...
> <mailto:jimemack2000@...> [UHFSDR] wrote:
>> ?
>>
>> It doesn't look very challenging. I'm going to pass on Hermes-Lite.
>>
>> Thank you, anyway.
>>
>> Jim
>> WI0Q
>>
>
>
> --
> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
> Senior Staff Specialist, Cricket Coach
> Microsoft Windows Free Zone - Linux used for all Computing Tasks
>
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1904. AMPS for UHFSDR

Yahoo group: UHFSDR
Date: 2015-03-24 02:11:06 UTC
From: Mike
Topic: 1904 Message: 1904

did any one else notice this amp on ebay ...

121496088135

its 1.5W 1mhz up to 500Mhz ....

--
Mike KC7NOA

1905. Re: [UHFSDR] AMPS for UHFSDR

Yahoo group: UHFSDR
Date: 2015-03-24 03:11:03 UTC
From: Mike
Topic: 1904 Message: 1905

But what i really want is a TriQuint TGA2237 .... but that's just plain expensive for 10W (sort of -- figure the cost of amps for 6M, 2M, 1.25M, 70cM and 23cM --- lol)

On 03/23/2015 07:11 PM, Mike Patriot121@... [UHFSDR] wrote:
>
> did any one else notice this amp on ebay ...
>
> 121496088135
>
> its 1.5W 1mhz up to 500Mhz ....
>
> --
> Mike KC7NOA
>
>

--
Mike KC7NOA

1906. SDR Software

Yahoo group: UHFSDR
Date: 2015-03-25 22:07:24 UTC
From: tomm1111@...
Topic: 1906 Message: 1906

Hi All,

I'm nearing completion of my UHFSDR and I'm looking forward to using it. What SDR software works best this the UHFSDR hardware?

Thanks,
Tom, KK6JOK

1907. Re: [UHFSDR] SDR Software

Yahoo group: UHFSDR
Date: 2015-03-25 22:31:15 UTC
From: Mike
Topic: 1906 Message: 1907

any really .. depends on what OS your using and what controller too ....

Windows and HDSDR is fine
Ubuntu and Quisk is nice too ...

On 03/25/2015 03:07 PM, tomm1111@... [UHFSDR] wrote:
>
> Hi All,
>
> I'm nearing completion of my UHFSDR and I'm looking forward to using
> it. What SDR software works best this the UHFSDR hardware?
>
> Thanks,
> Tom, KK6JOK
>
>
>

--
Mike KC7NOA

1908. Re: [UHFSDR] SDR Software

Yahoo group: UHFSDR
Date: 2015-03-25 23:04:27 UTC
From: Mike
Topic: 1906 Message: 1908

Oh ..

and windows SDR-Radio V2 does too .... but iv not used it in over a year
... and no idea if Tx is supported.

I usually stick to Ubuntu/Linux ...

On 03/25/2015 03:31 PM, Mike Patriot121@... [UHFSDR] wrote:
>
> any really .. depends on what OS your using and what controller too ....
>
> Windows and HDSDR is fine
> Ubuntu and Quisk is nice too ...
>
> On 03/25/2015 03:07 PM, tomm1111@... [UHFSDR] wrote:
>>
>> Hi All,
>>
>> I'm nearing completion of my UHFSDR and I'm looking forward to using
>> it. What SDR software works best this the UHFSDR hardware?
>>
>> Thanks,
>> Tom, KK6JOK
>>
>>
>
> --
> Mike KC7NOA
>

--
Mike KC7NOA

1909. RE: [UHFSDR] SDR Software

Yahoo group: UHFSDR
Date: 2015-03-26 07:17:36 UTC
From: Marc OLANIE
Topic: 1906 Message: 1909
Attachments: 2 described; binary payloads are missing from this source WARC

Hi Tom

Before considering the software part of the system, you should choose the best firmware for your needs. Almost all software under windows or linux will fulfill your wishes. But what’s between the hardware and the software is almost as important.

The firmware –and the microcontroler holding it- has two major functions : driving the I2C’s Si570 bus, and switching the differents bpf/ lpf depending on your working frequency. You also can add sequencer’s functions in the code to accomodate with different kind of power amps.

The choice –and configuration- of the « firmware stage » will depend on the way you intend to use your UHFSDR. Do you plan to use it only on the HF bands or only on V/UHF ? or both ? etc

73’
Marc f6itu

De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
Envoyé : mercredi 25 mars 2015 23:07
À : UHFSDR@yahoogroups.com
Objet : [UHFSDR] SDR Software

Hi All,

I'm nearing completion of my UHFSDR and I'm looking forward to using it. What SDR software works best this the UHFSDR hardware?

Thanks,
Tom, KK6JOK

1910. Re: [UHFSDR] AMPS for UHFSDR

Yahoo group: UHFSDR
Date: 2015-03-27 04:02:50 UTC
From: Mike
Topic: 1904 Message: 1910

ok ... its crap really ....

after i noticed the low freq range harmonic level is rated at -12dBc .... that's kinda terrible .... if the CW was at 1W then the harmonic would be 63mW ...

the CA2818C is rated at better than -35db IMD .... and second harmonic is stated at -65db

Not quite the same rating but .....

On 03/23/2015 07:11 PM, Mike Patriot121@... [UHFSDR] wrote:
>
> did any one else notice this amp on ebay ...
>
> 121496088135
>
> its 1.5W 1mhz up to 500Mhz ....
>
> --
> Mike KC7NOA
>
>

--
Mike KC7NOA

1911. UHFSDR with parallel port

Yahoo group: UHFSDR
Date: 2015-03-27 11:31:10 UTC
From: sergio.lopez.llorens@...
Topic: 1911 Message: 1911

Hi all,
I'm going crazy with this... then "I'll do with a little help of my friends" like the song.
My english is very poor then I'll be short in my words, sorry:

1. Have Windows 7 with parallel port machine
2. I want RX/TX + SI570 control from parallel

then I choose PowerSDR 1.19.3.15 Setup.msi (previous installing _pSDR2_CPG_Default.exe, _pSDR2_CPG_IK3VIG.exe, _pSDR2_CPG_IK3VIG-2.exe)

3. I've found two connections types in
http://wb6dhw.com/UHF-SDR/UHF_SDR%20Assembly%20Manual-with%20SV1OBT%20suggestions.doc
http://wb6dhw.com/UHF-SDR/UHF_SDR%20Assembly%20Manual-with%20SV1OBT%20suggestions.doc

and

PowerSDR-IQ includes provisions for controlling the Si570 and the T/R line of the UHFSDR. The parallel port connections are differect than other PowewrSDR versions.

UHFSDR db25(Parallel Port)

H1-1 connect to 5V TP next to H1
H1-2 19 Ground
H1-3 1 I2C SDA for Si570
H1-4 16 I2C SCL for Si570
H2-3 25 Ground
P2-1 8 /Rx Tx

I've tried the second one with T/R line and PowerSDR 1.19.3.15 Setup.msi (cant see if is -IQ or not)
It doesnt run for me, which one is correct?
To test I plugged headphone in UHFSDR To Lin connector to hear something but no noise at all and software doesnt allow me freqs upper 60 Mhz...

So sorry for that questions, could you help me? Thanks in advance

1912. Re: [UHFSDR] UHFSDR with parallel port

Yahoo group: UHFSDR
Date: 2015-03-28 03:21:00 UTC
From: Dave
Topic: 1911 Message: 1912

Sergio:
The first connection is only for use with Si570.exe. If you have a
strong local station, you should be able to use Si570.exe set at twice
the frequency and hear the signal.
The second requires PowerSDR-IQ. PowerSDR 1.19.3.15 Setup.msi does not
have the parallel port support. Try PowerSDR2.4.4_for_Homemade_Rigs.
With my USB interface, any of the SDR programs that allow setting the
multiplier to 2 should work.

Dave - WB6DHW
<http://wb6dhw.com>

You would need a very strong signal to hear it at the Lin jack.

On 3/27/2015 4:31 AM, sergio.lopez.llorens@... [UHFSDR] wrote:
>
> Hi all,
> I'm going crazy with this... then "I'll do with a little help of my
> friends" like the song.
> My english is very poor then I'll be short in my words, sorry:
>
> 1. Have Windows 7 with parallel port machine
> 2. I want RX/TX + SI570 control from parallel
>
> then I choose PowerSDR 1.19.3.15 Setup.msi (previous installing
> _pSDR2_CPG_Default.exe, _pSDR2_CPG_IK3VIG.exe, _pSDR2_CPG_IK3VIG-2.exe)
>
> 3. I've found two connections types in
> http://wb6dhw.com/UHF-SDR/UHF_SDR%20Assembly%20Manual-with%20SV1OBT%20suggestions.doc
>
>
>
>
> and
>
>
> PowerSDR-IQ includes provisions for controlling the Si570 and the T/R
> line of the
>
> UHFSDR. The parallel port connections are differect than other
> PowewrSDR versions.
>
>
> UHFSDR db25(Parallel Port)
>
>

> H1-1 connect to 5V TP next to H1
>
> H1-2 19 Ground
>
> H1-3 1 I2C SDA for Si570
>
> H1-4 16 I2C SCL for Si570
>
> H2-3 25 Ground
>
> P2-1 8 /Rx Tx
>
>
> I've tried the second one with T/R line and PowerSDR 1.19.3.15
> Setup.msi (cant see if is -IQ or not)
> It doesnt run for me, which one is correct?
> To test I plugged headphone in UHFSDR To Lin connector to hear
> something but no noise at all and software doesnt allow me freqs upper
> 60 Mhz...
>
> So sorry for that questions, could you help me? Thanks in advance
>
>
>

1913. HMC482 replacement

Yahoo group: UHFSDR
Date: 2015-03-30 16:48:37 UTC
From: Geoff
Topic: 1913 Message: 1913

I have to replace the HMC482 (U5) in my UHFSDR. Unfortunately it seems it is discontinued. Does anybody know of a suitable substitute or a source of supply for the original HMC482 which would be the preferred option.

73

Geoff G3NPI Buckingham UK

1914. Re: [UHFSDR] HMC482 replacement

Yahoo group: UHFSDR
Date: 2015-03-30 20:56:44 UTC
From: Dave
Topic: 1913 Message: 1914

Geoff:
The Freescale MMG3H21NT1 is a replacement. Arrow has them. Farnell doesn't. Mouser, Digikey, and Newark do, but they are not convient to the UK.

Dave - WB6DHW
<http://wb6dhw.com>

On 3/30/2015 9:48 AM, 'Geoff' g.suggate@... [UHFSDR] wrote:
>
> I have to replace the HMC482 (U5) in my UHFSDR. Unfortunately it seems
> it is
> discontinued. Does anybody know of a suitable substitute or a source
> of supply for the
> original HMC482 which would be the preferred option.
> 73
> Geoff G3NPI Buckingham UK
>

1915. Re: [UHFSDR] UHFSDR with parallel port

Yahoo group: UHFSDR
Date: 2015-03-30 21:15:42 UTC
From: Dave
Topic: 1911 Message: 1915

Sergio:
The first connection is only for use with Si570.exe. The second
requires PowerSDR-IQ.
You would need a very strong signal to hear it at the Lin jack.

On 3/27/2015 4:31 AM, sergio.lopez.llorens@... [UHFSDR] wrote:
>
> Hi all,
> I'm going crazy with this... then "I'll do with a little help of my
> friends" like the song.
> My english is very poor then I'll be short in my words, sorry:
>
> 1. Have Windows 7 with parallel port machine
> 2. I want RX/TX + SI570 control from parallel
>
> then I choose PowerSDR 1.19.3.15 Setup.msi (previous installing
> _pSDR2_CPG_Default.exe, _pSDR2_CPG_IK3VIG.exe, _pSDR2_CPG_IK3VIG-2.exe)
>
> 3. I've found two connections types in
> http://wb6dhw.com/UHF-SDR/UHF_SDR%20Assembly%20Manual-with%20SV1OBT%20suggestions.doc
>
>
>
>
> and
>
>
> PowerSDR-IQ includes provisions for controlling the Si570 and the T/R
> line of the
>
> UHFSDR. The parallel port connections are differect than other
> PowewrSDR versions.
>
>
> UHFSDR db25(Parallel Port)
>
>
> H1-1 connect to 5V TP next to H1
>
> H1-2 19 Ground
>
> H1-3 1 I2C SDA for Si570
>
> H1-4 16 I2C SCL for Si570
>

> H2-3 25 Ground
>
> P2-1 8 /Rx Tx
>
>
> I've tried the second one with T/R line and PowerSDR 1.19.3.15
> Setup.msi (cant see if is -IQ or not)
> It doesnt run for me, which one is correct?
> To test I plugged headphone in UHFSDR To Lin connector to hear
> something but no noise at all and software doesnt allow me freqs upper
> 60 Mhz...
>
> So sorry for that questions, could you help me? Thanks in advance
>
>
>

1916. Re: [UHFSDR] HMC482 replacement

Yahoo group: UHFSDR
Date: 2015-03-31 10:55:18 UTC
From: g.suggate@...
Topic: 1913 Message: 1916

Many thanks Dave. I note it is rated at 5v so I am thinking I should change the regulator U3 to a 5v regulator. perhaps the UA78M05CDYR. What do you think?

Mouser and Digikey are UK friendly except for the postage. But I will have to bite the bullet....

73

Geoff G3NPI Buckingham UK

1917. Re: [UHFSDR] HMC482 replacement

Yahoo group: UHFSDR
Date: 2015-03-31 12:46:14 UTC
From: Mike
Topic: 1913 Message: 1917

U3 (8Volts) provides bias to U5 .... and is DC blocked from U2 and U7 .....

U6 which controls the switching of U2 and U7 is powered from 5Volts ....

no regulator change needed ... i dont think.

On 03/31/2015 03:55 AM, g.suggate@... [UHFSDR] wrote:
>
> Many thanks Dave. I note it is rated at 5v so I am thinking I should
> change the regulator U3 to a 5v regulator.
>
> perhaps the UA78M05CDYR. What do you think?
>
> Mouser and Digikey are UK friendly except for the postage. But I will
> have to bite the bullet....
>
> 73
>
> Geoff G3NPI Buckingham UK
>
>
>

--
Mike KC7NOA

1918. Re: [UHFSDR] HMC482 replacement

Yahoo group: UHFSDR
Date: 2015-03-31 19:38:25 UTC
From: Dave
Topic: 1913 Message: 1918

Geoff:
I have a note on the schematic saying to do that.

Dave - WB6DHW
<http://wb6dhw.com>

On 3/31/2015 3:55 AM, g.suggate@... [UHFSDR] wrote:
>
> Many thanks Dave. I note it is rated at 5v so I am thinking I should
> change the regulator U3 to a 5v regulator.
>
> perhaps the UA78M05CDYR. What do you think?
>
> Mouser and Digikey are UK friendly except for the postage. But I will
> have to bite the bullet....
>
> 73
>
> Geoff G3NPI Buckingham UK
>
>
>

1919. Re: [UHFSDR] HMC482 replacement

Yahoo group: UHFSDR
Date: 2015-04-01 10:23:47 UTC
From: Mansueto Grech
Topic: 1913 Message: 1919

Hi Geoff,

Found this on EBAY

http://www.ebay.com/itm/10pc-LOT-OF-Hittite-HMC482ST89-MMIC-AMP-HBT
-5GHZ-SOT-89-/191068300226?pt=LH_DefaultDomain_0&hash=item2c7c8ee3c2

73's
Mans.

PS sorry don't have any else I would have gladly sent you 1.

On 30 March 2015 at 18:48, 'Geoff' g.suggate@yahoo.com [UHFSDR] <
UHFSDR@yahoogroups.com> wrote:

>
>
> I have to replace the HMC482 (U5) in my UHFSDR. Unfortunately it seems
> it is
> discontinued. Does anybody know of a suitable substitute or a source of
> supply for the
> original HMC482 which would be the preferred option.
>
> 73
>
> Geoff G3NPI Buckingham UK
>
>
>

1920. Re: [UHFSDR] Intros & questions

Yahoo group: UHFSDR
Date: 2015-04-01 18:40:01 UTC
From: Mike
Topic: 1740 Message: 1920

did you ever geta uhfsdr?

On 05/19/2014 06:13 AM, p-thomas@... [UHFSDR] wrote:
>
> Hello all!
>
> I've had an interest in SDR before I even knew what SDR "was" so I'm
> glad to see that there are so many options today. Of course the
> number of options is part of the issue too!
>
> Along those lines, if anyone is aware of a good SDR book or
> presentation or something that discusses a design and why certain
> things are done the way they're done, I would love to hear about
> that. That's part of my interest here... self-education, etc.
>
> As to UHFSDR specifically, I've got a decent HF rig but was looking
> around for options to get SSB on 2m and 440. Originally I was debating
> a transverter but since I also am interested in SDR, I saw this
> around, and couldn't pass it up. ;-)
>
> Ultimately I would love to be able to attempt some satellite
> operation. I have a separate rx, but would like a transmitter that's
> halfway decent. Of course "halfway decent" is subjective... has
> anyone ever characterized the UHFSDR design objectively?
>
> Usually I try to not post much until I read through the post history
> (case in point, I see at least one self-run sensitivity improvement
> thread which characterizes some of the enhancements)... but has there
> been ongoing effort to pull changes into the design? Or is it mostly
> unchanged? If the latter, is there a centralized place to find mods
> for the design other than combing through "back issues" here?
>
> Also I've been looking at a mounting option close to the antenna along
> with a computer, to avoid noise/etc issues as well as minimize loss.
> Being able to support multiple bands without physical switching would
> be a great help for me in this respect! I'm still trying to
> understand whether it's practical to have one design work from ~10MHz
> (or lower?) up to literally 700 (well, up to 70cm for transmit)... or
> if I should just let the HF rig do what it does and fix the UHFSDR at
> 2m and/or 70cm and call it good.
>
> Speaking of design mods, are the kicad files available anywhere for
> use? Rather than just the PDFs?
>
> Last but not least, if anyone has done any experimentation (with

> UHFSDR or otherwise) using standalone ADC/DAC chips rather than sound
> cards for SDR applications, I would love to hear about it. I'd really
> like to see more than +/- 48kHz of band on the scope if at all
> possible, as well as having maximum precision without worrying about
> unexpected circuitry. There are several fairly cheap 1MHz class ADCs
> and several not-outrageous 10MHz class ADCs, for example. Piping that
> natively to USB shouldn't be too hard, though the CPU impact might be
> a limiting factor eventually.
>
> Sorry for the lengthy brain-dump, but glad to see the interest in the
> project! And 73....
>
> - Pat, KB8DGC
>
>

--
Mike KC7NOA

1921. Re: [UHFSDR] Intros & questions

Yahoo group: UHFSDR
Date: 2015-04-02 16:58:34 UTC
From: p-thomas@...
Topic: 1740 Message: 1921

Hi Mike,

Yes, I did get a UHF SDR, and got fairly well into the build although my old microcontroller board barfed and I have not got off my lazy rear to start with a new one yet. Unfortunately I did not get far with answering my original questions below, but I appreciate that they didn't fall on entirely deaf ears! :-) I do at least know that the oscillator works properly and moves around as-programmed!!

Still would love a direct-to-USB option rather than dealing with the control board and the sound card, which would be somewhat easier (or at least less lossy/noisy) to do with those kicad files. ;-)

What prompts your question?

Happy Easter, by the way, to all who celebrate that!

---In UHFSDR@yahoogroups.com, <Patriot121@...> wrote :

did you ever geta uhfsdr?

On 05/19/2014 06:13 AM, p-thomas@... mailto:p-thomas@... [UHFSDR] wrote:

Hello all!

I've had an interest in SDR before I even knew what SDR "was" so I'm glad to see that there are so many options today. Of course the number of options is part of the issue too!
(...)

--
Mike KC7NOA

1922. Re: [UHFSDR] Intros & questions

Yahoo group: UHFSDR
Date: 2015-04-02 23:49:23 UTC
From: Mike
Topic: 1740 Message: 1922

Im using a sound card with a QRP2000 ....

only using the soundcard option because i know of no MCU based solution
that can modulate/demod FM ....

My set up right now is an Odroid-X2 Arm computer with a soundcard and
QRP2000 usb controller for the Si570 ....

I have a manualy switched in 2M bandpass filter now so i can now listen
with better resolution and of corse full hf ....

I plan on making it remote controlled for VHF and use a CA2818C for RF
to ~800mW(hope for 1W) --

The OdroidX ahd some useable GPIO pins thatcan be used for control lines
via an level converter ....

this is what i'm trying to do these days ....

What prompted my question was just wonderong how your were getting along
with VHF/UHF/SHF .....

On 04/02/2015 09:58 AM, p-thomas@... [UHFSDR] wrote:
>
>
> Hi Mike,
>
> Yes, I did get a UHF SDR, and got fairly well into the build although
> my old microcontroller board barfed and I have not got off my lazy
> rear to start with a new one yet. Unfortunately I did not get far
> with answering my original questions below, but I appreciate that they
> didn't fall on entirely deaf ears! :-) I do at least know that the
> oscillator works properly and moves around as-programmed!!
>
> Still would love a direct-to-USB option rather than dealing with the
> control board and the sound card, which would be somewhat easier (or
> at least less lossy/noisy) to do with those kicad files. ;-)
>
> What prompts your question?
>
> Happy Easter, by the way, to all who celebrate that!
>
>
> ---In UHFSDR@yahoogroups.com, <Patriot121@...> wrote :
>
> did you ever geta uhfsdr?
>

> On 05/19/2014 06:13 AM, p-thomas@... <mailto:p-thomas@...> [UHFSDR] wrote:
>
>> Hello all!
>>
>> I've had an interest in SDR before I even knew what SDR "was" so
>> I'm glad to see that there are so many options today. Of course
>> the number of options is part of the issue too!
>> (...)
>>
>
> --
> Mike KC7NOA
>
>

--
Mike KC7NOA

1923. Re: HMC482 replacement

Yahoo group: UHFSDR
Date: 2015-04-08 15:22:44 UTC
From: g.suggate@...
Topic: 1913 Message: 1923

Thanks to all who responded. I ordered MMG3H21NT1 (to replace the HMC482) and UA78M05CDCYR (to replace the 8v reg) from Mouser. I have now fitted them and was greeted with loads of instability on TX. I looked at the spec sheet for the MMG3H21NT1 and note they suggest 0 ohm instead of the 27 ohm. This did not help. I then went back to an 8v supply and a 27 ohm resistor, just as bad. I also have a 150 ohm resistor in parallel with the inductance feeding the MMIC. Has anybody managed to tame this chip ?? Any suggestions gratefully received.

73

Geoff G3NPI Buckingham UK

1924. Re: HMC482 replacement

Yahoo group: UHFSDR
Date: 2015-04-12 17:09:31 UTC
From: g.suggate@...
Topic: 1913 Message: 1924

Just to complete this topic. I have managed to tame the MMG3H21NT1 albeit with a slightly reduced gain. My set up is U3 regulator changed to 5v, R2 27 ohms, Inductor shunted by 47ohms. Hope this helps anyone with the same problem.

73

Geoff G3NPI Buckingham UK

1925. Re: [UHFSDR] Re: HMC482 replacement

Yahoo group: UHFSDR
Date: 2015-04-12 17:31:40 UTC
From: Mike
Topic: 1913 Message: 1925

How was the cost ....?

On 04/12/2015 10:09 AM, g.suggate@... [UHFSDR] wrote:
>
> Just to complete this topic. I have managed to tame the MMG3H21NT1
> albeit with a slightly reduced gain. My set up is U3 regulator changed
> to 5v, R2 27 ohms, Inductor shunted by 47ohms. Hope this helps anyone
> with the same problem.
>
>
> 73
>
> Geoff G3NPI Buckingham UK
>

--
Mike KC7NOA

1926. Re: [UHFSDR] HMC482 replacement

Yahoo group: UHFSDR
Date: 2015-04-13 15:25:50 UTC
From: Jean-Paul Louis
Topic: 1913 Message: 1926

$1.38 with QTY of one at Mouser.

Jean-Paul
AC9GH

> On Apr 12, 2015, at 1:31 PM, Mike Patriot121@... [UHFSDR] <UHFSDR@yahoogroups.com> wrote:
>
> How was the cost ....?
>
>
> On 04/12/2015 10:09 AM, g.suggate@yahoo.com [UHFSDR] wrote:
>>
>> Just to complete this topic. I have managed to tame the MMG3H21NT1 albeit with a slightly reduced gain. My set up is U3 regulator changed to 5v, R2 27 ohms, Inductor shunted by 47ohms. Hope this helps anyone with the same problem.
>>
>>
>> 73
>>
>> Geoff G3NPI Buckingham UK
>
> --
> Mike KC7NOA
>
>
>

1927. Stereo line in -- usb sound

Yahoo group: UHFSDR
Date: 2015-05-05 23:28:16 UTC
From: Mike
Topic: 1927 Message: 1927

OK .. its time to reduce the size of my usb soundcard !!!!

im looking for only 2 ports, lineIn and LineOut in a USB config ....

the 10$ soundcard that i have been using is good, but its getting close
to time to put the top of the case on my SDR and that soundcard is
larger than my OdroidX2 !!!!

--
Mike KC7NOA

1928. DC blocking caps

Yahoo group: UHFSDR
Date: 2015-06-01 22:28:57 UTC
From: Mike
Topic: 1928 Message: 1928

Hey every one ....

Iv recently noticed that my output and input blocking caps are leaking DC ..... the lineIn and Linout have DC on them

yea ... both sides of the SMD cap -- and yes different voltages .... its not a short.

Has any one else noticed that they have failed?

been checked recently?

--
Mike KC7NOA

1929. Re: DC blocking caps

Yahoo group: UHFSDR
Date: 2015-06-01 23:52:20 UTC
From: rkolarik@...
Topic: 1928 Message: 1929

Mike,

How much voltage? Have you pulled the line cables and checked for voltage with them disconnected? You could be seeing something from the soundcard/computer with a ground loop.

Ron
K0IDT

1930. Re: [UHFSDR] Re: DC blocking caps

Yahoo group: UHFSDR
Date: 2015-06-02 00:06:07 UTC
From: Mike
Topic: 1928 Message: 1930

Sorry ....

Yes ... the soundcard was removed from setup .. i was in the process of setting in a soundcard for permanent .....
And had just soldered in some shielded audio cables when i thought that i would check to see if i remembered which side of the SMD capacitors was the blocked side ...

to my surprise, both sides of all four SMD capacitors had voltage on them .....

I soldered my cables directly to C37 C38 & C26 C27 --- the 10uF capacitors .... and the ground ring of the corresponding 1/8" stereo jack.

On 06/01/2015 04:52 PM, rkolarik@... [UHFSDR] wrote:
>
> Mike,
>
> How much voltage? Have you pulled the line cables and checked for
> voltage with them
> disconnected? You could be seeing something from the
> soundcard/computer with a
> ground loop.
>
> Ron
> K0IDT
>
>

--
Mike KC7NOA

1931. Re: [UHFSDR] Re: DC blocking caps

Yahoo group: UHFSDR
Date: 2015-06-02 01:22:23 UTC
From: Milt Cram
Topic: 1928 Message: 1931

On 6/1/2015 7:06 PM, Mike Patriot121@... [UHFSDR] wrote:
>
> Sorry ....
>
> Yes ... the soundcard was removed from setup .. i was in the process
> of setting in a soundcard for permanent .....
> And had just soldered in some shielded audio cables when i thought
> that i would check to see if i remembered which side of the SMD
> capacitors was the blocked side ...
>
> to my surprise, both sides of all four SMD capacitors had voltage on
> them .....
>
> I soldered my cables directly to C37 C38 & C26 C27 --- the 10uF
> capacitors .... and the ground ring of the corresponding 1/8" stereo jack.
>
>
> On 06/01/2015 04:52 PM, rkolarik@... [UHFSDR] wrote:
>>
>> Mike,
>>
>> How much voltage? Have you pulled the line cables and checked for
>> voltage with them
>> disconnected? You could be seeing something from the
>> soundcard/computer with a
>> ground loop.
>>
>> Ron
>> K0IDT
>>
>
Mike,

I would suggest that you connect a 5 to 10K resistor from each of the four signal lines to ground. Then make your voltage measurements.

If your previous measurements were made with a high input impedance voltmeter, you would probably see about 2.5VDC on the rig side of each of the capacitors and something less than that on the computer (sound card) side. With the resistors added as suggested above, you should see a much smaller DC voltage on the sound card side.

The capacitors probably have a very small leakage, and with a high impedance voltmeter, you will see some DC with nothing connected but the voltmeter. The load resistors would likely reduce the DC on the sound card side of the caps to millivolts.

Hope this helps.

73, Milt
W8NUE

1932. Re: [UHFSDR] Re: DC blocking caps

Yahoo group: UHFSDR
Date: 2015-06-02 01:51:21 UTC
From: rkolarik@...
Topic: 1928 Message: 1932

Mike, what Milt said, got distracted and that was next on the list of things to do.

Ron
K0IDT

1933. CW OFFSET CARRIER from uhfsdr board

Yahoo group: UHFSDR
Date: 2015-06-03 16:40:07 UTC
From: g.suggate@...
Topic: 1933 Message: 1933

Hi Guys,

I wonder if anybody can give me a pointer to the following:-

Looking at the input to the TX MMIC under key up conditions I get a signal 750hz away and only 20db down on the main carrier. On key down this signal disappears and the main carrier appears on the intended frequency, but only 20db stronger. When this is fed to the amplifiers this condition is easily audible to others.

I have noted that the o/p of the UHFSDR board is very low under key down (around 3mw) and have checked the TX MMIC which is giving 12db gain. So have now started to think that the mixers are not being driven hard enough. I am only able to do comparative tests, which show the same input level on both sides (pins 1 and 6) of both mixers. I borrowed a scope a few weeks ago and confirmed the phasing is correct.

I would be very grateful for a set of readings taken with a scope giving the expected levels into the mixers and perhaps further back along the drive chains to enable me to sort out this problem. Once I have some figures I will borrow the scope again. Or any clues as to what might be the cause...

73

Geoff G3NPI

1934. Re: [UHFSDR] CW OFFSET CARRIER from uhfsdr board

Yahoo group: UHFSDR
Date: 2015-06-03 19:25:02 UTC
From: Dave
Topic: 1933 Message: 1934

Geoff:
Check to see if switch U2 is working correctly. Is the receive
working OK? As I recall, I get between 10 and 20 mW out.

Dave - WB6DHW
<http://wb6dhw.com>

On 6/3/2015 9:40 AM, g.suggate@... [UHFSDR] wrote:
>
> Hi Guys,
>
>
> I wonder if anybody can give me a pointer to the following:-
>
>
> Looking at the input to the TX MMIC under key up conditions I get a
> signal 750hz away and only 20db down on the main carrier. On key down
> this signal disappears and the main carrier appears on the intended
> frequency, but only 20db stronger. When this is fed to the amplifiers
> this condition is easily audible to others.
>
>
> I have noted that the o/p of the UHFSDR board is very low under key
> down (around 3mw) and have checked the TX MMIC which is giving 12db
> gain. So have now started to think that the mixers are not being
> driven hard enough. I am only able to do comparative tests, which show
> the same input level on both sides (pins 1 and 6) of both mixers. I
> borrowed a scope a few weeks ago and confirmed the phasing is correct.
>
>
> I would be very grateful for a set of readings taken with a scope
> giving the expected levels into the mixers and perhaps further back
> along the drive chains to enable me to sort out this problem. Once I
> have some figures I will borrow the scope again. Or any clues as to
> what might be the cause...
>
>
> 73
>
>
> Geoff G3NPI
>
>
>
>

1935. Re: [UHFSDR] CW OFFSET CARRIER from uhfsdr board

Yahoo group: UHFSDR
Date: 2015-06-05 09:59:00 UTC
From: g.suggate@...
Topic: 1933 Message: 1935

Dave,

Thank you for your response.

The RX is OK except that strong signals (above S9 +5) produce spikes all over the band.

There is virtually no loss through U2 so I am happy that is OK.

As the levels into the mixers(ie Q,/Q,I,/I) measured against ground, are all the same and the phasing is correct, should I now try replacing the mixers

as they hardly seem to be balancing out the carrier at all. ie with no Audio I and Q input the o/p is only 20 db

down. Am I correct in assuming it should be approaching the -57db level as per the mixer spec?

Geoff G3NPI

1936. Re: [UHFSDR] CW OFFSET CARRIER from uhfsdr board

Yahoo group: UHFSDR
Date: 2015-06-05 18:38:57 UTC
From: Dave
Topic: 1933 Message: 1936

Geoff:
Sounds like possibly a mixer problem. Check that the resister values in the 3dB attenuators in the LO path are correct. Note also that neither LO pin is grounded. The 2 pins are driven by the in phase and 180 degree outputs of the dividers.

Dave - WB6DHW
<http://wb6dhw.com>

On 6/5/2015 2:59 AM, g.suggate@... [UHFSDR] wrote:
>
> Dave,
>
>
> Thank you for your response.
>
> The RX is OK except that strong signals (above S9 +5) produce spikes
> all over the band.
>
> There is virtually no loss through U2 so I am happy that is OK.
>
> As the levels into the mixers(ie Q,/Q,I,/I) measured against ground,
> are all the same and the phasing is correct, should I now try
> replacing the mixers
>
> as they hardly seem to be balancing out the carrier at all. ie with no
> Audio I and Q input the o/p is only 20 db
>
> down. Am I correct in assuming it should be approaching the -57db
> level as per the mixer spec?
>
> Geoff G3NPI
>
>
>

1937. VHF modification

Yahoo group: UHFSDR
Date: 2015-06-18 16:00:05 UTC
From: Mike
Topic: 1937 Message: 1937

Hey guys/gals ....

This question is for those that have changes out the first amp in the Rx chain (U4) -- with what i don't remember right now --

Im wondering how that is going ... is it still stable?

Iv been using the 2m band of late and it strikes me that the original needs help in that area --- i dont seem to have enuff gain -- or more said, signal to noise

and since i did buy a replacement U4 (to replace the BGA612) .....

I cant remember if it was advised to replace R3(120ohm) or just set the choke on top of it .....

i bought and have retuned a PROCOM DPF2/6LH-24-30 that seems to be working quite nicely .... its installed (temp) and

as soon is i figure out where in the heck i placed (hid - sure hope i didn't throw them away) 2@BGY36's ill be Txing with ~30W on 2meters ....

--
Mike KC7NOA

1938. Re: VHF modification

Yahoo group: UHFSDR
Date: 2015-06-18 17:44:18 UTC
From: ed.murphy31@...
Topic: 1937 Message: 1938

Check out my modification on the LNA within the conversation text.

Regards
GM3SBC.

Ps you may find that you need to sign an end user licence to procure the genuine part. The performance is just too good for some countries to have availability. As a matter of interest I also can no longer get access to the component and I live in the UK. There has been a severe tightening up of the distribution of this part.

1939. Re: [UHFSDR] Re: VHF modification

Yahoo group: UHFSDR
Date: 2015-06-18 17:58:31 UTC
From: Mike
Topic: 1937 Message: 1939

Didnt see it ... what text? .. is in the files sections?

On 06/18/2015 10:44 AM, ed.murphy31@... [UHFSDR] wrote:
>
> Check out my modification on the LNA within the conversation text.
>
> Regards
> GM3SBC.
>
> Ps you may find that you need to sign an end user licence to procure
> the genuine part. The performance is just too good for some countries
> to have availability. As a matter of interest I also can no longer get
> access to the component and I live in the UK. There has been a severe
> tightening up of the distribution of this part.
>
>

--
Mike KC7NOA

1940. Re: [UHFSDR] Re: VHF modification

Yahoo group: UHFSDR
Date: 2015-06-18 18:15:57 UTC
From: Mike
Topic: 1937 Message: 1940

Never mind .. found message 714 ...

And i think i bought 2 shortly after you posted that ... and the inductors ....

ok .. so how has it been .. still working .....

Did you leave it with R3 as a 100nH ? or did you try some swamping resistance ?

Or im not sure if (i found my previous posts --wow im forgetful) ... series a 100nf with a 560nf .... would help on DC bands ...

Id sure love to see a pic of the new mmic installed !!!!

On 06/18/2015 10:44 AM, ed.murphy31@... [UHFSDR] wrote:
>
> Check out my modification on the LNA within the conversation text.
>
> Regards
> GM3SBC.
>
> Ps you may find that you need to sign an end user licence to procure
> the genuine part. The performance is just too good for some countries
> to have availability. As a matter of interest I also can no longer get
> access to the component and I live in the UK. There has been a severe
> tightening up of the distribution of this part.
>
>

--
Mike KC7NOA

1941. frequency control

Yahoo group: UHFSDR
Date: 2015-06-18 18:38:07 UTC
From: edfinn11@...
Topic: 1941 Message: 1941

Hello,

I have a uhfsdr that I never tried to use. I want to change that!

I was looking at the UHF2SDR board, but Christos is no longer making them. Is there anything else out there to make a clean interface and decent CW performance?

I do not have a way to control the SI570 now without gutting my softrock rx/tx. Is there a solution for this piece? I want to use power-sdr.

thanks,
Ed wa3drc

1942. Re: [UHFSDR] Re: VHF modification

Yahoo group: UHFSDR
Date: 2015-06-18 18:38:40 UTC
From: Mike
Topic: 1937 Message: 1942

Sorry .. yes that's a typo ....

100nH to 560nH ...

i see that a 100nH was used for test fixture for 400Mhz to 3Ghz .....

On 06/18/2015 11:15 AM, Mike Patriot121@... [UHFSDR] wrote:
>
> Never mind .. found message 714 ...
>
> And i think i bought 2 shortly after you posted that ... and the
> inductors ....
>
> ok .. so how has it been .. still working .....
>
> Did you leave it with R3 as a 100nH ? or did you try some swamping
> resistance ?
>
> Or im not sure if (i found my previous posts --wow im forgetful) ...
> series a 100nf with a 560nf .... would help on DC bands ...
>
>
> Id sure love to see a pic of the new mmic installed !!!!
>
> On 06/18/2015 10:44 AM, ed.murphy31@... [UHFSDR] wrote:
>>
>> Check out my modification on the LNA within the conversation text.
>>
>> Regards
>> GM3SBC.
>>
>> Ps you may find that you need to sign an end user licence to procure
>> the genuine part. The performance is just too good for some countries
>> to have availability. As a matter of interest I also can no longer
>> get access to the component and I live in the UK. There has been a
>> severe tightening up of the distribution of this part.
>>
>
> --
> Mike KC7NOA
>

--
Mike KC7NOA

1943. Re: [UHFSDR] frequency control

Yahoo group: UHFSDR
Date: 2015-06-18 18:43:25 UTC
From: Mike
Topic: 1941 Message: 1943

the QRP200 uss's almost the same firmware as the softrock ....

you will not have band pass filter control with it .. but Si570 will be controlled ....

Iv been planning of using Alex Lee pic32 code of the same .... but with more control lines for 6M, 2M, 1.25 and 70cm .... some day.

Im currently using a QRP2000 to control the si570 in my uhfsdr ...

On 06/18/2015 11:38 AM, edfinn11@... [UHFSDR] wrote:
>
> Hello,
>
> I have a uhfsdr that I never tried to use. I want to change that!
>
> I was looking at the UHF2SDR board, but Christos is no longer making
> them. Is there anything else out there to make a clean interface and
> decent CW performance?
>
> I do not have a way to control the SI570 now without gutting my
> softrock rx/tx. Is there a solution for this piece? I want to use
> power-sdr.
>
> thanks,
> Ed wa3drc
>
>
>

--
Mike KC7NOA

1944. Re: [UHFSDR] frequency control

Yahoo group: UHFSDR
Date: 2015-06-18 18:53:09 UTC
From: Dave
Topic: 1941 Message: 1944

Ed:
I now sell a USB2I2C board. It will plug into H1 on the UHFSDR. It has the same firmware as the Softrocks. It does work in power-sdr.

Dave - WB6DHW
<http://wb6dhw.com>

On 6/18/2015 11:38 AM, edfinn11@... [UHFSDR] wrote:
>
> Hello,
>
> I have a uhfsdr that I never tried to use. I want to change that!
>
> I was looking at the UHF2SDR board, but Christos is no longer making
> them. Is there anything else out there to make a clean interface and
> decent CW performance?
>
> I do not have a way to control the SI570 now without gutting my
> softrock rx/tx. Is there a solution for this piece? I want to use
> power-sdr.
>
> thanks,
> Ed wa3drc
>
>
>

1945. Re: [UHFSDR] frequency control

Yahoo group: UHFSDR
Date: 2015-06-18 19:14:41 UTC
From: Mike
Topic: 1941 Message: 1945

Dave .. do you have it listed on your site?

USB2I2C i couldn't find it ...

On 06/18/2015 11:53 AM, Dave dave@... [UHFSDR] wrote:
>
> Ed:
> I now sell a USB2I2C board. It will plug into H1 on the UHFSDR. It
> has the same firmware as the Softrocks. It does work in power-sdr.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 6/18/2015 11:38 AM, edfinn11@... [UHFSDR] wrote:
>>
>> Hello,
>>
>> I have a uhfsdr that I never tried to use. I want to change that!
>>
>> I was looking at the UHF2SDR board, but Christos is no longer making
>> them. Is there anything else out there to make a clean interface and
>> decent CW performance?
>>
>> I do not have a way to control the SI570 now without gutting my
>> softrock rx/tx. Is there a solution for this piece? I want to use
>> power-sdr.
>>
>> thanks,
>> Ed wa3drc
>>
>>
>
>

--
Mike KC7NOA

1946. Re: [UHFSDR] frequency control

Yahoo group: UHFSDR
Date: 2015-06-18 20:45:22 UTC
From: Dave
Topic: 1941 Message: 1946

Ed:
It is right above the UHFSDR on the For Sale page. It is actual
called USBI2C.

Dave - WB6DHW
<http://wb6dhw.com>

On 6/18/2015 12:14 PM, Mike Patriot121@... [UHFSDR] wrote:
>
> Dave .. do you have it listed on your site?
>
> USB2I2C i couldn't find it ...
>
> On 06/18/2015 11:53 AM, Dave dave@... [UHFSDR] wrote:
>>
>> Ed:
>> I now sell a USB2I2C board. It will plug into H1 on the UHFSDR.
>> It has the same firmware as the Softrocks. It does work in power-sdr.
>>
>> Dave - WB6DHW
>> <http://wb6dhw.com>
>>
>> On 6/18/2015 11:38 AM, edfinn11@... [UHFSDR] wrote:
>>>
>>> Hello,
>>>
>>> I have a uhfsdr that I never tried to use. I want to change that!
>>>
>>> I was looking at the UHF2SDR board, but Christos is no longer making
>>> them. Is there anything else out there to make a clean interface and
>>> decent CW performance?
>>>
>>> I do not have a way to control the SI570 now without gutting my
>>> softrock rx/tx. Is there a solution for this piece? I want to use
>>> power-sdr.
>>>
>>> thanks,
>>> Ed wa3drc
>>>
>>>
>>
>
> --
> Mike KC7NOA
>

1947. Re: frequency control

Yahoo group: UHFSDR
Date: 2015-06-18 23:54:27 UTC
From: edfinn11@...
Topic: 1941 Message: 1947

Dave,

Thanks, I just ordered one.

tnx,
Ed

1948. Re: [UHFSDR] frequency control

Yahoo group: UHFSDR
Date: 2015-06-19 00:09:55 UTC
From: Mike
Topic: 1941 Message: 1948

Is there a schematic or for the *USBI2C*?

On 06/18/2015 11:53 AM, Dave dave@... [UHFSDR] wrote:
>
> Ed:
> I now sell a USB2I2C board. It will plug into H1 on the UHFSDR. It
> has the same firmware as the Softrocks. It does work in power-sdr.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 6/18/2015 11:38 AM, edfinn11@... [UHFSDR] wrote:
>>
>> Hello,
>>
>> I have a uhfsdr that I never tried to use. I want to change that!
>>
>> I was looking at the UHF2SDR board, but Christos is no longer making
>> them. Is there anything else out there to make a clean interface and
>> decent CW performance?
>>
>> I do not have a way to control the SI570 now without gutting my
>> softrock rx/tx. Is there a solution for this piece? I want to use
>> power-sdr.
>>
>> thanks,
>> Ed wa3drc
>>
>>
>
>

--
Mike KC7NOA

1949. Re: [UHFSDR] frequency control

Yahoo group: UHFSDR
Date: 2015-06-19 01:12:30 UTC
From: Dave
Topic: 1941 Message: 1949

Mike:
Looks like I neglected to put the schematic and layout on the web. I will add a link this evening. Meanwhile, the schematic is at <http://wb6dhw.com/USBI2C/USBI2C_Schematic.pdf>

Dave - WB6DHW
<http://wb6dhw.com>

On 6/18/2015 5:09 PM, Mike Patriot121@... [UHFSDR] wrote:
>
> Is there a schematic or for the *USBI2C*?
>
>
>
> On 06/18/2015 11:53 AM, Dave dave@... [UHFSDR] wrote:
>>
>> Ed:
>> I now sell a USB2I2C board. It will plug into H1 on the UHFSDR.
>> It has the same firmware as the Softrocks. It does work in power-sdr.
>>
>> Dave - WB6DHW
>> <http://wb6dhw.com>
>>
>> On 6/18/2015 11:38 AM, edfinn11@... [UHFSDR] wrote:
>>>
>>> Hello,
>>>
>>> I have a uhfsdr that I never tried to use. I want to change that!
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>>> I was looking at the UHF2SDR board, but Christos is no longer making
>>> them. Is there anything else out there to make a clean interface and
>>> decent CW performance?
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>>> I do not have a way to control the SI570 now without gutting my
>>> softrock rx/tx. Is there a solution for this piece? I want to use
>>> power-sdr.
>>>
>>> thanks,
>>> Ed wa3drc
>>>
>>>
>>
>
> --
> Mike KC7NOA

>

1950. Re: [UHFSDR] frequency control

Yahoo group: UHFSDR
Date: 2015-06-19 02:10:28 UTC
From: Mike
Topic: 1941 Message: 1950

ok ... wanted to see if it was a AtTiny45 or 85 ....

On 06/18/2015 06:12 PM, Dave dave@... [UHFSDR] wrote:
>
> Mike:
> Looks like I neglected to put the schematic and layout on the web.
> I will add a link this evening. Meanwhile, the schematic is at
> <http://wb6dhw.com/USBI2C/USBI2C_Schematic.pdf>
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 6/18/2015 5:09 PM, Mike Patriot121@... [UHFSDR] wrote:
>>
>> Is there a schematic or for the *USBI2C*?
>>
>>
>>
>> On 06/18/2015 11:53 AM, Dave dave@... [UHFSDR] wrote:
>>>
>>> Ed:
>>> I now sell a USB2I2C board. It will plug into H1 on the UHFSDR.
>>> It has the same firmware as the Softrocks. It does work in power-sdr.
>>>
>>> Dave - WB6DHW
>>> <http://wb6dhw.com>
>>>
>>> On 6/18/2015 11:38 AM, edfinn11@... [UHFSDR] wrote:
>>>>
>>>> Hello,
>>>>
>>>> I have a uhfsdr that I never tried to use. I want to change that!
>>>>
>>>> I was looking at the UHF2SDR board, but Christos is no longer
>>>> making them. Is there anything else out there to make a clean
>>>> interface and decent CW performance?
>>>>
>>>> I do not have a way to control the SI570 now without gutting my
>>>> softrock rx/tx. Is there a solution for this piece? I want to use
>>>> power-sdr.
>>>>
>>>> thanks,
>>>> Ed wa3drc
>>>>
>>>>

```
>>>
>>
>> --
>> Mike KC7NOA
>
>

--
Mike KC7NOA
```

1951. Re: [UHFSDR] frequency control

Yahoo group: UHFSDR
Date: 2015-06-19 02:25:34 UTC
From: Dave
Topic: 1941 Message: 1951

Mike:
It is the AtTiny 85(doesn't show on the PDF schematic, but is in the
part number on the KICAD schematic. I order them from "The Parts Place"
already programmed.

Dave - WB6DHW
<http://wb6dhw.com>

On 6/18/2015 7:10 PM, Mike Patriot121@... [UHFSDR] wrote:
>
> ok ... wanted to see if it was a AtTiny45 or 85 ....
>
> On 06/18/2015 06:12 PM, Dave dave@... [UHFSDR] wrote:
>>
>> Mike:
>> Looks like I neglected to put the schematic and layout on the web.
>> I will add a link this evening. Meanwhile, the schematic is at
>> <http://wb6dhw.com/USBI2C/USBI2C_Schematic.pdf>
>>
>> Dave - WB6DHW
>> <http://wb6dhw.com>
>>
>> On 6/18/2015 5:09 PM, Mike Patriot121@... [UHFSDR] wrote:
>>>
>>> Is there a schematic or for the *USBI2C*?
>>>
>>>
>>>
>>> On 06/18/2015 11:53 AM, Dave dave@... [UHFSDR] wrote:
>>>>
>>>> Ed:
>>>> I now sell a USB2I2C board. It will plug into H1 on the UHFSDR.
>>>> It has the same firmware as the Softrocks. It does work in power-sdr.
>>>>
>>>> Dave - WB6DHW
>>>> <http://wb6dhw.com>
>>>>
>>>> On 6/18/2015 11:38 AM, edfinn11@... [UHFSDR] wrote:
>>>>>
>>>>> Hello,
>>>>>
>>>>> I have a uhfsdr that I never tried to use. I want to change that!
>>>>>
>>>>> I was looking at the UHF2SDR board, but Christos is no longer
>>>>> making them. Is there anything else out there to make a clean

>>>>> interface and decent CW performance?
>>>>>
>>>>> I do not have a way to control the SI570 now without gutting my
>>>>> softrock rx/tx. Is there a solution for this piece? I want to use
>>>>> power-sdr.
>>>>>
>>>>> thanks,
>>>>> Ed wa3drc
>>>>>
>>>>>
>>>>
>>>
>>> --
>>> Mike KC7NOA
>>
>
> --
> Mike KC7NOA
>

1952. Re: [UHFSDR] Re: VHF modification

Yahoo group: UHFSDR
Date: 2015-06-19 06:15:13 UTC
From: Mike
Topic: 1937 Message: 1952

OK .... so change out is done ....

I did screen shots on 80M (3.970mhz) with a calibrate signal that's part of my Atlas350xl --- its nice and steady.

and 2M (147.38Mhz) its a semi local repeater ...

before and after -- with antenna connected and without ...

On 80M i lost 20DB of signal and also went down 10db of noise floor ....

on VHF 2M 147.38mhz i gained 10db of signal but had no difference in noise floor with antenna on or off ..... i assume that this was due to using the 2m throw on antenna that on the HF vertical ... its a mfj1798 if anyone wants to look it up ....

I had an issue of my stupid local AM Broadcast station getting into the radio after the change over was done .... not sure if its due to the higher gain or what but it mostly seen on HF .... might be also that i happen to start before 11pm and finished after ... i dont know when they increase/decrease the transmitted power ....

iv lived with the signal on my case grounds for 7 years now and im sure it will go away when I MOVE !!!!!

Whom ever has done this change out with the spf5043 --- does it run almost hot .....??

I might of damaged it from a stupid mistake when starting ....

On 06/18/2015 11:38 AM, Mike Patriot121@... [UHFSDR] wrote:
>
> Sorry .. yes that's a typo ....
>
> 100nH to 560nH ...
>
> i see that a 100nH was used for test fixture for 400Mhz to 3Ghz .....
>
> On 06/18/2015 11:15 AM, Mike Patriot121@... [UHFSDR] wrote:
>>
>> Never mind .. found message 714 ...
>>
>> And i think i bought 2 shortly after you posted that ... and the
>> inductors ....
>>
>> ok .. so how has it been .. still working .....
>>

>> Did you leave it with R3 as a 100nH ? or did you try some swamping
>> resistance ?
>>
>> Or im not sure if (i found my previous posts --wow im forgetful)
>> ... series a 100nf with a 560nf .... would help on DC bands ...
>>
>>
>> Id sure love to see a pic of the new mmic installed !!!!
>>
>> On 06/18/2015 10:44 AM, ed.murphy31@... [UHFSDR] wrote:
>>>
>>> Check out my modification on the LNA within the conversation text.
>>>
>>> Regards
>>> GM3SBC.
>>>
>>> Ps you may find that you need to sign an end user licence to procure
>>> the genuine part. The performance is just too good for some
>>> countries to have availability. As a matter of interest I also can
>>> no longer get access to the component and I live in the UK. There
>>> has been a severe tightening up of the distribution of this part.
>>>
>>
>> --
>> Mike KC7NOA
>
> --
> Mike KC7NOA
>

--
Mike KC7NOA

1953. Re: [UHFSDR] Re: VHF modification

Yahoo group: UHFSDR
Date: 2015-06-19 06:38:14 UTC
From: Dave
Topic: 1937 Message: 1953

Mike:
If you are only using the 560nH choke, that value is too small below
10 MHz. Add a 3.3 uH or so in series with the 560nH. At 4 MHz, the
560nH is only 14 ohms which will load down the 50 ohm output.
The 3.3uH at 145MHz will likely look like a capacitor.

Dave - WB6DHW
<http://wb6dhw.com>

On 6/18/2015 11:15 PM, Mike Patriot121@... [UHFSDR] wrote:
>
> OK .... so change out is done ....
>
>
> I did screen shots on 80M (3.970mhz) with a calibrate signal that's
> part of my Atlas350xl --- its nice and steady.
>
> and 2M (147.38Mhz) its a semi local repeater ...
>
>
>
> before and after -- with antenna connected and without ...
>
>
>
> On 80M i lost 20DB of signal and also went down 10db of noise floor ....
>
> on VHF 2M 147.38mhz i gained 10db of signal but had no difference in
> noise floor with antenna on or off ..... i assume that this was due to
> using the 2m throw on antenna that on the HF vertical ... its a
> mfj1798 if anyone wants to look it up ....
>
> I had an issue of my stupid local AM Broadcast station getting into
> the radio after the change over was done .... not sure if its due to
> the higher gain or what but it mostly seen on HF .... might be also
> that i happen to start before 11pm and finished after ... i dont know
> when they increase/decrease the transmitted power ....
>
> iv lived with the signal on my case grounds for 7 years now and im
> sure it will go away when I MOVE !!!!!
>
> Whom ever has done this change out with the spf5043 --- does it run
> almost hot .....??
>
> I might of damaged it from a stupid mistake when starting ....

>
>
>
> On 06/18/2015 11:38 AM, Mike Patriot121@... [UHFSDR] wrote:
>>
>> Sorry .. yes that's a typo ....
>>
>> 100nH to 560nH ...
>>
>> i see that a 100nH was used for test fixture for 400Mhz to 3Ghz .....
>>
>> On 06/18/2015 11:15 AM, Mike Patriot121@... [UHFSDR] wrote:
>>>
>>> Never mind .. found message 714 ...
>>>
>>> And i think i bought 2 shortly after you posted that ... and the
>>> inductors ....
>>>
>>> ok .. so how has it been .. still working .....
>>>
>>> Did you leave it with R3 as a 100nH ? or did you try some swamping
>>> resistance ?
>>>
>>> Or im not sure if (i found my previous posts --wow im forgetful)
>>> ... series a 100nf with a 560nf .... would help on DC bands ...
>>>
>>>
>>> Id sure love to see a pic of the new mmic installed !!!!
>>>
>>> On 06/18/2015 10:44 AM, ed.murphy31@... [UHFSDR] wrote:
>>>>
>>>> Check out my modification on the LNA within the conversation text.
>>>>
>>>> Regards
>>>> GM3SBC.
>>>>
>>>> Ps you may find that you need to sign an end user licence to
>>>> procure the genuine part. The performance is just too good for some
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>>>> no longer get access to the component and I live in the UK. There
>>>> has been a severe tightening up of the distribution of this part.
>>>>
>>>
>>> --
>>> Mike KC7NOA
>>
>> --
>> Mike KC7NOA
>
> --

> Mike KC7NOA
>

1954. Re: [UHFSDR] Re: VHF modification

Yahoo group: UHFSDR
Date: 2015-06-19 14:01:54 UTC
From: <Patriot121@...>
Topic: 1937 Message: 1954

I only used the 100nH ....

The gain just kept going up in the pdf ....

Also I thought that a loss of gain might be ok in the hf area ..

I'll add a 560nH or a 3.3uH .... Should get the coil before next week end .... I hope.

I figure one step at a time ....

Since I'm not trying to rx anything above 2.4ghz ..... would you like to see the next choke replacing the 100nh or put in series?

Sent by Outlook for Android

From: Dave dave@wb6dhw.com [UHFSDR]

Sent: Thursday, June 18, 11:38 PM

Subject: Re: [UHFSDR] Re: VHF modification

To: Dave dave@... [UHFSDR]

Mike:

  If you are only using the 560nH choke, that value is too small below 10 MHz. Add a 3.3 uH or so in series with the 560nH. At 4 MHz, the 560nH is only 14 ohms which will load down the 50 ohm output.

  The 3.3uH at 145MHz will likely look like a capacitor.

Dave - WB6DHW

<http://wb6dhw.com>

On 6/18/2015 11:15 PM, Mike Patriot121@... [UHFSDR] wrote:

OK .... so change out is done ....

I did screen shots on 80M (3.970mhz) with a calibrate signal that's part of my Atlas350xl --- its nice and steady.

and 2M (147.38Mhz) its a semi local repeater ...

before and after -- with antenna connected and without ...

On 80M i lost 20DB of signal and also went down 10db of noise floor ....

on VHF 2M 147.38mhz i gained 10db of signal but had no difference in noise floor with antenna on or off ..... i assume that this was due to using the 2m throw on antenna that on

the HF vertical ... its a mfj1798 if anyone wants to look it up ....

I had an issue of my stupid local AM Broadcast station getting into the radio after the change over was done .... not sure if its due to the higher gain or what but it mostly seen on HF .... might be also that i happen to start before 11pm and finished after ... i dont know when they increase/decrease the transmitted power ....

iv lived with the signal on my case grounds for 7 years now and im sure it will go away when I MOVE !!!!!

Whom ever has done this change out with the spf5043 --- does it run almost hot .....??

I might of damaged it from a stupid mistake when starting ....

On 06/18/2015 11:38 AM, Mike Patriot121@... [UHFSDR] wrote:

Sorry .. yes that's a typo ....

100nH to 560nH ...

i see that a 100nH was used for test fixture for 400Mhz to 3Ghz .....

On 06/18/2015 11:15 AM, Mike Patriot121@... [UHFSDR] wrote:

Never mind .. found message 714 ...

And i think i bought 2 shortly after you posted that ... and the inductors ....

ok .. so how has it been .. still working .....

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Regards

GM3SBC.

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-- Mike KC7NOA

-- Mike KC7NOA

-- Mike KC7NOA

1955. Re: [UHFSDR] Re: VHF modification

Yahoo group: UHFSDR
Date: 2015-06-19 17:43:36 UTC
From: <Patriot121@...>
Topic: 1937 Message: 1955

Ok ... I happened to have a discreet 3.3uh that I put in series with the 100nH. ...

80m signals came back up to pre mod levels and 2M seems to have loss 3db off of the 10db gain

Sent by Outlook for Android

On Fri, Jun 19, 2015 at 7:02 AM -0700, "Patriot121@... [UHFSDR]" <UHFSDR@yahoogroups.com> wrote:
I only used the 100nH ....

The gain just kept going up in the pdf ....

Also I thought that a loss of gain might be ok in the hf area ..

I'll add a 560nH or a 3.3uH .... Should get the coil before next week end .... I hope.

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Sent by Outlook for Android

From: Dave dave@... [UHFSDR]

Sent: Thursday, June 18, 11:38 PM

Subject: Re: [UHFSDR] Re: VHF modification

To: Dave dave@... [UHFSDR]

Mike:

If you are only using the 560nH choke, that value is too small below 10 MHz. Add a 3.3 uH or so in series with the 560nH. At 4 MHz, the 560nH is only 14 ohms which will load down the 50 ohm output.

The 3.3uH at 145MHz will likely look like a capacitor.

Dave - WB6DHW

<http://wb6dhw.com>

On 6/18/2015 11:15 PM, Mike Patriot121@... [UHFSDR] wrote:

OK .... so change out is done ....

I did screen shots on 80M (3.970mhz) with a calibrate signal that's part of my Atlas350xl --- its nice and steady.

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before and after -- with antenna connected and without ...

On 80M i lost 20DB of signal and also went down 10db of noise floor ....

on VHF 2M 147.38mhz i gained 10db of signal but had no difference in noise floor with antenna on or off ..... i assume that this was due to using the 2m throw on antenna that on the HF vertical ... its a mfj1798 if anyone wants to look it up ....

I had an issue of my stupid local AM Broadcast station getting into the radio after the change over was done .... not sure if its due to the higher gain or what but it mostly seen on HF .... might be also that i happen to start before 11pm and finished after ... i dont know when they increase/decrease the transmitted power ....

iv lived with the signal on my case grounds for 7 years now and im sure it will go away when I MOVE !!!!!

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On 06/18/2015 11:15 AM, Mike Patriot121@... [UHFSDR] wrote:

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-- Mike KC7NOA

-- Mike KC7NOA

-- Mike KC7NOA

1956. Re: [UHFSDR] Re: VHF modification

Yahoo group: UHFSDR
Date: 2015-06-20 04:42:14 UTC
From: Mike
Topic: 1937 Message: 1956

Im still looking for an answer ....

does the spf5043 run kinda hot durring normal operation? it gets hotter
than my Si570 does .....

any one see the same thing ?

n 06/19/2015 07:01 AM, Patriot121@... [UHFSDR] wrote:
>
> I only used the 100nH ....
>
> The gain just kept going up in the pdf ....
>
> Also I thought that a loss of gain might be ok in the hf area ..
>
> I'll add a 560nH or a 3.3uH .... Should get the coil before next week
> end .... I hope.
>
> I figure one step at a time ....
>
> Since I'm not trying to rx anything above 2.4ghz ..... would you like
> to see the next choke replacing the 100nh or put in series?
>
> Sent by Outlook <http://taps.io/outlookmobile> for Android
>
>> From: Dave dave@... [UHFSDR]
>> Sent: Thursday, June 18, 11:38 PM
>> Subject: Re: [UHFSDR] Re: VHF modification
>> To: Dave dave@... [UHFSDR]
>>
>> Mike:
>> If you are only using the 560nH choke, that value is too small
>> below 10 MHz. Add a 3.3 uH or so in series with the 560nH. At 4
>> MHz, the 560nH is only 14 ohms which will load down the 50 ohm output.
>> The 3.3uH at 145MHz will likely look like a capacitor.
>>
>> Dave - WB6DHW
>> <http://wb6dhw.com> <http://wb6dhw.com>
>>
>> On 6/18/2015 11:15 PM, Mike Patriot121@...
>> <mailto:Patriot121@...> [UHFSDR] wrote:
>>
>> OK .... so change out is done ....
>>
>> I did screen shots on 80M (3.970mhz) with a calibrate signal that's
>> part of my Atlas350xl --- its nice and steady.

>>
>> and 2M (147.38Mhz) its a semi local repeater ...
>>
>> before and after -- with antenna connected and without ...
>>
>> On 80M i lost 20DB of signal and also went down 10db of noise floor ....
>>
>> on VHF 2M 147.38mhz i gained 10db of signal but had no difference in
>> noise floor with antenna on or off ..... i assume that this was due
>> to using the 2m throw on antenna that on the HF vertical ... its a
>> mfj1798 if anyone wants to look it up ....
>>
>> I had an issue of my stupid local AM Broadcast station getting into
>> the radio after the change over was done .... not sure if its due to
>> the higher gain or what but it mostly seen on HF .... might be also
>> that i happen to start before 11pm and finished after ... i dont know
>> when they increase/decrease the transmitted power ....
>>
>> iv lived with the signal on my case grounds for 7 years now and im
>> sure it will go away when I MOVE !!!!!
>>
>> Whom ever has done this change out with the spf5043 --- does it run
>> almost hot .....??
>>
>> I might of damaged it from a stupid mistake when starting ....
>>
>> On 06/18/2015 11:38 AM, Mike Patriot121@...
>> <mailto:Patriot121@...> [UHFSDR] wrote:
>>
>> Sorry .. yes that's a typo ....
>>
>> 100nH to 560nH ...
>>
>> i see that a 100nH was used for test fixture for 400Mhz to 3Ghz .....
>>
>> On 06/18/2015 11:15 AM, Mike Patriot121@...
>> <mailto:Patriot121@...> [UHFSDR] wrote:
>>
>> Never mind .. found message 714 ...
>>
>> And i think i bought 2 shortly after you posted that ... and the
>> inductors ....
>>
>> ok .. so how has it been .. still working .....
>>
>> Did you leave it with R3 as a 100nH ? or did you try some swamping
>> resistance ?
>>
>> Or im not sure if (i found my previous posts --wow im forgetful)
>> ... series a 100nf with a 560nf .... would help on DC bands ...

>>
>> Id sure love to see a pic of the new mmic installed !!!!
>>
>> On 06/18/2015 10:44 AM, ed.murphy31@yahoo.com
>> <mailto:ed.murphy31@...> [UHFSDR] wrote:
>>
>> Check out my modification on the LNA within the conversation text.
>>
>> Regards
>> GM3SBC.
>>
>> Ps you may find that you need to sign an end user licence to procure
>> the genuine part. The performance is just too good for some countries
>> to have availability. As a matter of interest I also can no longer
>> get access to the component and I live in the UK. There has been a
>> severe tightening up of the distribution of this part.
>>
>> -- Mike KC7NOA
>>
>> -- Mike KC7NOA
>>
>> -- Mike KC7NOA
>>
>>
>>
>

--
Mike KC7NOA

1957. spf5043 pics

Yahoo group: UHFSDR
Date: 2015-06-22 03:28:07 UTC
From: Mike
Topic: 1957 Message: 1957

this looks poor .. and im thinking of removing the 3.3uH in series with 100nH with a single 560uH ... but

this is what i have working right now ....

I was looking to see if you can do more than 40khz of split with Quisk in the 2M band when i came across some people talking on 144.47Mhz ....

Im not sure thats supposed to be used for FM simplex .. but ....

i did use them to make some observations ....

the weakest signal fellah was 70% copy .. and the strong guy was 100% ....

I decided to switch the coax to my HT for a comparison ....

The week fellah was 80% -- lots of broken/chop .... and the strong guy was full winky blink on the HTX-202 ....

now i figure the UHFSDR is doing alright .... it can't compare to a true FM detector receiver ...

i might still want to change out the series chokes for a single 560uH .... not sure what would be a good compromise ... IF compromise was needed ....

pic of the giant install .... https://flic.kr/p/uHZnJh

i sapose i should photobucket ... that link looks like its secured and im not sure if you can remove the "s" from https to see it ...

let me know

Mike KC7NOA

1958. Re: [UHFSDR] spf5043 pics

Yahoo group: UHFSDR
Date: 2015-06-22 03:32:39 UTC
From: Mike
Topic: 1957 Message: 1958

posted to photobucket for ease ...

<http://i1349.photobucket.com/albums/p747/seth747/20150621_192831_zpskf1uvmjr.jpg>
http://i1349.photobucket.com/albums/p747/seth747/20150621_192831_zpskf1uvmjr.jpg

On 06/21/2015 08:28 PM, Mike Patriot121@... [UHFSDR] wrote:
>
> this looks poor .. and im thinking of removing the 3.3uH in series with
> 100nH with a single 560uH ... but
>
> this is what i have working right now ....
>
> I was looking to see if you can do more than 40khz of split with Quisk
> in the 2M band when i came across some people talking on 144.47Mhz ....
>
> Im not sure thats supposed to be used for FM simplex .. but ....
>
> i did use them to make some observations ....
>
> the weakest signal fellah was 70% copy .. and the strong guy was 100% ....
>
> I decided to switch the coax to my HT for a comparison ....
>
> The week fellah was 80% -- lots of broken/chop .... and the strong guy
> was full winky blink on the HTX-202 ....
>
> now i figure the UHFSDR is doing alright .... it can't compare to a true
> FM detector receiver ...
>
> i might still want to change out the series chokes for a single 560uH
> .... not sure what would be a good compromise ... IF compromise was
> needed ....
>
> pic of the giant install .... https://flic.kr/p/uHZnJh
>
> i sapose i should photobucket ... that link looks like its secured and
> im not sure if you can remove the "s" from https to see it ...
>
> let me know
>
> Mike KC7NOA
>
>

--
Mike KC7NOA

1959. Re: [UHFSDR] spf5043 pics

Yahoo group: UHFSDR
Date: 2015-06-22 03:37:41 UTC
From: Mike
Topic: 1957 Message: 1959

Now .. im going to use the same thread ...

has anyone used the commet brand duplexer's as band pass filters ?

Iv not had any luck finding a 1.25M filter for sale but commet does sell
a duplexer that seperates 220Mhz from 440and HF (170Mhz ..)

at better than 40db isolation and low loss ... ".6db" i think i read
....

any thoughts ?

On 06/21/2015 08:32 PM, Mike Patriot121@... [UHFSDR] wrote:
>
> posted to photobucket for ease ...
>
> <http://i1349.photobucket.com/albums/p747/seth747/20150621_192831_zpskf1uvmjr.jpg>
> http://i1349.photobucket.com/albums/p747/seth747/20150621_192831_zpskf1uvmjr.jpg
>
> On 06/21/2015 08:28 PM, Mike Patriot121@... [UHFSDR] wrote:
>>
>> this looks poor .. and im thinking of removing the 3.3uH in series with
>> 100nH with a single 560uH ... but
>>
>> this is what i have working right now ....
>>
>> I was looking to see if you can do more than 40khz of split with Quisk
>> in the 2M band when i came across some people talking on 144.47Mhz ....
>>
>> Im not sure thats supposed to be used for FM simplex .. but ....
>>
>> i did use them to make some observations ....
>>
>> the weakest signal fellah was 70% copy .. and the strong guy was 100%
>> ....
>>
>> I decided to switch the coax to my HT for a comparison ....
>>
>> The week fellah was 80% -- lots of broken/chop .... and the strong guy
>> was full winky blink on the HTX-202 ....
>>
>> now i figure the UHFSDR is doing alright .... it can't compare to a true
>> FM detector receiver ...
>>
>> i might still want to change out the series chokes for a single 560uH
>> .... not sure what would be a good compromise ... IF compromise was

>> needed ....
>>
>> pic of the giant install .... https://flic.kr/p/uHZnJh
>>
>> i sapose i should photobucket ... that link looks like its secured and
>> im not sure if you can remove the "s" from https to see it ...
>>
>> let me know
>>
>> Mike KC7NOA
>>
>
> --
> Mike KC7NOA
>

--
Mike KC7NOA

1960. Re: [UHFSDR] frequency control

Yahoo group: UHFSDR
Date: 2015-06-22 20:54:26 UTC
From: edfinn11@...
Topic: 1941 Message: 1960

Dave,

I got the ATTiny85 board today, thanks.

This does not have a keyer built into the firmware right? What is the significance of CWKEY_1 and CWKEY_2 lines?

Ed

1961. Re: [UHFSDR] frequency control

Yahoo group: UHFSDR
Date: 2015-06-22 20:57:39 UTC
From: Mike
Topic: 1941 Message: 1961

When you use them it sets a flag ...

this in turn is read by the software -- if its been written to use this
feature -
to send a dit or dah in the sdr program (PC) ....

it kinda has some delay ... and annoying to listen to when you send a
word and you hear the word 4 seconds or more after .... depends on latency.

On 06/22/2015 01:54 PM, edfinn11@... [UHFSDR] wrote:
>
> Dave,
>
> I got the ATTiny85 board today, thanks.
>
> This does not have a keyer built into the firmware right? What is the
> significance of CWKEY_1 and CWKEY_2 lines?
>
> Ed
>
>

--
Mike KC7NOA

1962. Re: [UHFSDR] frequency control

Yahoo group: UHFSDR
Date: 2015-06-23 14:36:47 UTC
From: edfinn11@...
Topic: 1941 Message: 1962

ok, i forgot how this worked. I recall the long delay trying to send cw with a softrock rx/tx. it was annoying over 10 wpm as i recall. i guess i could get a picokeyer and listen to the sidetone.

i guess flexradio must do something different. I was using flex 1500's at w3ccx during the June contest a couple weeks ago. they had two stations using that radio on the microwave bands as IF's. Their CW lag was undetectable to me at 20 wpm.

I want to use uhfsdr as my microwave IF. CW is mandatory for microwaves!

Ed

1963. Re: [UHFSDR] frequency control

Yahoo group: UHFSDR
Date: 2015-06-23 16:09:48 UTC
From: Mike
Topic: 1941 Message: 1963

Yea .. that's what i have done .... pluss the memory keyer is helpful ....

i used it into the audio line that way .... i don't hear the delay its alot shorter ..,,,,,, than ....

trying to get your action through the USB, then computer making the tone, then you hearing it .. you can see why its got a bit of a delay using the paddle ports on the USB2i2C .... it can work .. but not the best.

Im still wondering what UHFSDR users are using for filters above 2M ..... i wonder if those comet triplexers have enough isolation to be compliant ...

I even found a quad and penta plexer made by Austin antenna -- no longer in production.

With the >40db isolation and using 50ohm loads on the un-used ports ... i wonder if that could provide enough harmonic suppression to be FFC legal ....

lets face it .. the uhfsdr can produce quite the harmonic output without filters .... which i think is a good thing ....

It would be fun to use the UHFSDR on 902mhz or even 1.2Ghz --- 2.4Ghz ?

NO5K posted some plots of a UHFSDR that main carrier was on 28Mhz and 17th harmonic on 478Mhz only 30db down ...

I wonder what the harmonic levels are if the si570 was set to a desired freq of 144Mhz ... or even 440Mhz ... or higher !!!!! would the 17th harmonic still be 30db down ? (7.511428571429Ghz 30db down?) .... would it be usable ?

Wish some one would do more spectrum plots !!!!

The 5th harmonic (140Mhz) of the 28Mhz plot was 14db down ...

Set main to 300.666666667Mhz .... 3rd harmonic is 902Mhz @ 9db down ....?

Set main to 280.0000Mhz .... 5rd harmonic is 1.2Ghz @ 14db down ?

Seth main to 691.2Mhz ..... 15th Harmonic is 10.368Ghz ..... (ok so im sure that the MMIC and Tx amp's cant go that high ...?)

Am i ranting
Am i WAY off base ?
Would the I/Q phase error be insanely bad ?

On 06/23/2015 07:36 AM, edfinn11@... [UHFSDR] wrote:
>
> ok, i forgot how this worked. I recall the long delay trying to send
> cw with a softrock rx/tx. it was annoying over 10 wpm as i recall. i
> guess i could get a picokeyer and listen to the sidetone.
>
> i guess flexradio must do something different. I was using flex 1500's
> at w3ccx during the June contest a couple weeks ago. they had two
> stations using that radio on the microwave bands as IF's. Their CW lag
> was undetectable to me at 20 wpm.
>
> I want to use uhfsdr as my microwave IF. CW is mandatory for microwaves!
>
> Ed
>
>

--
Mike KC7NOA

1964. Re: [UHFSDR] frequency control

Yahoo group: UHFSDR
Date: 2015-06-23 21:14:47 UTC
From: edfinn11@...
Topic: 1941 Message: 1964

well, the first thing I will try is 144 mHz. I tuned a small helical filter today that I got from DEM for 144mHz. It had about 2 db loss, but its just an IF. the next problem would be a 432 mHz filter which will be the IF for my 24 gHz transverter. I can probably do that with a helical filter too. Switching these will be another problem that I haven't figured out yet.

You are trying to do direct I/O though. Since I already have transverters with 144 IF's, it's much easier. Actually, these boards are cheap enough that you could dedicate one to a band. Then you would have to figure out audio and usb switching...

now I'm drifting off in a different direction!

Ed

1965. Re: [UHFSDR] frequency control

Yahoo group: UHFSDR
Date: 2015-06-23 21:25:53 UTC
From: Mike
Topic: 1941 Message: 1965

Its not hard ....

Does your UHFSDR have the newer spf5043 lna in it (U4) ?

On 06/23/2015 02:14 PM, edfinn11@... [UHFSDR] wrote:
>
> well, the first thing I will try is 144 mHz. I tuned a small helical
> filter today that I got from DEM for 144mHz. It had about 2 db loss,
> but its just an IF. the next problem would be a 432 mHz filter which
> will be the IF for my 24 gHz transverter. I can probably do that with
> a helical filter too. Switching these will be another problem that I
> haven't figured out yet.
>
> You are trying to do direct I/O though. Since I already have
> transverters with 144 IF's, it's much easier. Actually, these boards
> are cheap enough that you could dedicate one to a band. Then you would
> have to figure out audio and usb switching...
>
> now I'm drifting off in a different direction!
>
> Ed
>
>

--
Mike KC7NOA

1966. Re: [UHFSDR] frequency control

Yahoo group: UHFSDR
Date: 2015-06-24 04:07:18 UTC
From: edfinn11@...
Topic: 1941 Message: 1966

Mike,

I am not sure... I assembled this in the summer of 2012. I looked under a microscope at U4. It was not obvious as there was not enough contrast. Why do you ask?

The project is in high gear. I have an enclosure, and was drilling metal all night...

I have a high quality USB sound card that I was using with the softrock. It is a EMU Tracker Pre. It does 192kbs. I hope it works with powersdr. I guess I'll find out soon...

Ed

1967. Re: [UHFSDR] frequency control

Yahoo group: UHFSDR
Date: 2015-06-24 04:50:48 UTC
From: Mike
Topic: 1941 Message: 1967

Because the noise would be better and would have more than 15db more gain ....

The spf5043 has a noise figure of .8db at 900mhz and the BGA612 2.1dbNF@2ghz -- has shown its self to be fairly deaf for some reason on 100Mhz and higher ...

It helped boost my Rx levels by 10db and drop my noise level a few db ...

Im using a simple 16bit USB soundcard @48Khz ....

i think i uploaded some pics ... of mine with the spf5043 installed ....

On 06/23/2015 09:07 PM, edfinn11@... [UHFSDR] wrote:
>
> Mike,
>
> I am not sure... I assembled this in the summer of 2012. I looked
> under a microscope at U4. It was not obvious as there was not enough
> contrast. Why do you ask?
>
> The project is in high gear. I have an enclosure, and was drilling
> metal all night...
>
> I have a high quality USB sound card that I was using with the
> softrock. It is a EMU Tracker Pre. It does 192kbs. I hope it works
> with powersdr. I guess I'll find out soon...
>
> Ed
>
>

--
Mike KC7NOA

1968. Re: [UHFSDR] frequency control

Yahoo group: UHFSDR
Date: 2015-06-24 04:57:32 UTC
From: Mike
Topic: 1941 Message: 1968

I also replaced R3 with a pair of series coils/chokes .... a 100nH and a
3.3uH ....

On 06/23/2015 09:50 PM, Mike Patriot121@... [UHFSDR] wrote:
>
> Because the noise would be better and would have more than 15db more
> gain ....
>
> The spf5043 has a noise figure of .8db at 900mhz and the BGA612
> 2.1dbNF@2ghz -- has shown its self to be fairly deaf for some reason
> on 100Mhz and higher ...
>
> It helped boost my Rx levels by 10db and drop my noise level a few db ...
>
> Im using a simple 16bit USB soundcard @48Khz ....
>
>
> i think i uploaded some pics ... of mine with the spf5043 installed ....
>
> On 06/23/2015 09:07 PM, edfinn11@... [UHFSDR] wrote:
>>
>> Mike,
>>
>> I am not sure... I assembled this in the summer of 2012. I looked
>> under a microscope at U4. It was not obvious as there was not enough
>> contrast. Why do you ask?
>>
>> The project is in high gear. I have an enclosure, and was drilling
>> metal all night...
>>
>> I have a high quality USB sound card that I was using with the
>> softrock. It is a EMU Tracker Pre. It does 192kbs. I hope it works
>> with powersdr. I guess I'll find out soon...
>>
>> Ed
>>
>
> --
> Mike KC7NOA
>

--
Mike KC7NOA

1969. Re: [UHFSDR] frequency control

Yahoo group: UHFSDR
Date: 2015-06-24 22:02:33 UTC
From: edfinn11@...
Topic: 1941 Message: 1969

ok, good to know. I'll pick up a few and swap it out. You never know when it might go into service at RF instead of IF.

I hate deaf receivers!

Ed

1970. Re: [UHFSDR] frequency control

Yahoo group: UHFSDR
Date: 2015-06-25 00:30:05 UTC
From: Sid Boyce
Topic: 1941 Message: 1970

I am not sure how Flexradio does CW. openHPSDR/ANAN rigs implement CW in the FPGA but I have seen reports of delays. I haven't looked at how the keyer interfaces with the radio hardware.

HiQSDR has direct inputs to the FPGA from the keyer. Listening to the audio oscillator in my old Curtis 8044 iambic Keyer and from the radio on another receiver there is no perceptible delay at ~40 WPM with the RX/TX relay chattering away in unison.
73 ... Sid.

On 23/06/15 15:36, edfinn11@... [UHFSDR] wrote:
>
> ok, i forgot how this worked. I recall the long delay trying to send
> cw with a softrock rx/tx. it was annoying over 10 wpm as i recall. i
> guess i could get a picokeyer and listen to the sidetone.
>
> i guess flexradio must do something different. I was using flex 1500's
> at w3ccx during the June contest a couple weeks ago. they had two
> stations using that radio on the microwave bands as IF's. Their CW lag
> was undetectable to me at 20 wpm.
>
> I want to use uhfsdr as my microwave IF. CW is mandatory for microwaves!
>
> Ed
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1971. Re: [UHFSDR] frequency control

Yahoo group: UHFSDR
Date: 2015-06-25 02:42:42 UTC
From: edfinn11@...
Topic: 1941 Message: 1971

how did you get to this combination?

the data sheet shows a 100nH on the test board. in a series combo, 3.3uH would dominate...

1972. Re: [UHFSDR] frequency control

Yahoo group: UHFSDR
Date: 2015-06-25 03:52:53 UTC
From: Mike
Topic: 1941 Message: 1972

Its what i had ....

Its because the HF gain degragates because of the 100nH ... as i understand it , it has a Xl of 1.1ohms @ 1.8Mhz
@ 1.9Mhz the 3.3uH is 40 ohms .....

the test jig that they show is tested from 400Mhz to 3Ghz .... we don't need that high of a performance .... maybe ?

I was just trying to increase the HF gain some more (or reduce the loss from such a low impedance)
... but not alot since the spf5043 has more gain than the 612 .... and you don't need alot of gain on 160M !!!

when i added the 3.3uH i lost about 3db of signal on 2M, not sure how much on 440Mhz .. i dont have a filter yet for that band and didn't want to Tx (bring up a repeater for Rx comparison ---- before and after screen capture with same soundcard levels)

Some one needs to experiment with values .... i don't think the UHFSDR can Rx/Tx much above 1.2Ghz .. i might be wrong .... (really wish some one would set the Si570 to 650Mhz (800Mhz/2) or so and see just how much power is in the 3rd through to the 15th harmonic ....

Id love to see 2.4Ghz or more ... even 10mW would do ....) i think) ....

Iv not done much microwave stuff ... but i do have 7 Internet satellite dish set up's .. one of wich i think was on 26Ghz ... the rest were 11-12Ghz .... (10.368Ghz anyone?) --- plans for the future -- hope to try before i die ...

On 06/24/2015 07:42 PM, edfinn11@... [UHFSDR] wrote:
>
> how did you get to this combination?
>
> the data sheet shows a 100nH on the test board. in a series combo,
> 3.3uH would dominate...
>
>

--
Mike KC7NOA

1973. Re: [UHFSDR] frequency control

Yahoo group: UHFSDR
Date: 2015-06-25 04:11:01 UTC
From: Mike
Topic: 1941 Message: 1973

And the other thought is that a 16bit soundcard might not have enough
resolution for the I/Q balance to null out the oppisite side band ---
... i havent thought about this enough to come to a logical conclusion ...

On 06/24/2015 08:52 PM, Mike Patriot121@... [UHFSDR] wrote:
>
> Its what i had ....
>
> Its because the HF gain degragates because of the 100nH ... as i
> understand it , it has a Xl of 1.1ohms @ 1.8Mhz
> @ 1.9Mhz the 3.3uH is 40 ohms .....
>
> the test jig that they show is tested from 400Mhz to 3Ghz .... we
> don't need that high of a performance .... maybe ?
>
> I was just trying to increase the HF gain some more (or reduce the
> loss from such a low impedance)
> ... but not alot since the spf5043 has more gain than the 612 .... and
> you don't need alot of gain on 160M !!!
>
> when i added the 3.3uH i lost about 3db of signal on 2M, not sure how
> much on 440Mhz .. i dont have a filter yet for that band and didn't
> want to Tx (bring up a repeater for Rx comparison ---- before and
> after screen capture with same soundcard levels)
>
> Some one needs to experiment with values .... i don't think the UHFSDR
> can Rx/Tx much above 1.2Ghz .. i might be wrong .... (really wish some
> one would set the Si570 to 650Mhz (800Mhz/2) or so and see just how
> much power is in the 3rd through to the 15th harmonic ....
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> Id love to see 2.4Ghz or more ... even 10mW would do ....) i think) ....
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> Iv not done much microwave stuff ... but i do have 7 Internet
> satellite dish set up's .. one of wich i think was on 26Ghz ... the
> rest were 11-12Ghz .... (10.368Ghz anyone?) --- plans for the future
> -- hope to try before i die ...
>
>
>
> On 06/24/2015 07:42 PM, edfinn11@gmail.com [UHFSDR] wrote:
>>
>> how did you get to this combination?
>>
>> the data sheet shows a 100nH on the test board. in a series combo,
>> 3.3uH would dominate...

>>
>
> --
> Mike KC7NOA
>

--
Mike KC7NOA

1974. Re: [UHFSDR] frequency control

Yahoo group: UHFSDR
Date: 2015-06-25 04:39:58 UTC
From: Dave
Topic: 1941 Message: 1974

The 3.3uH would dominate at lower frequencies. But, 140 MHz is above the resonate frequency of almost all 3.3 uH coils. The coil will act more like a capacitor at that frequency. The 560 nH is not enough inductance below 10 MHz. The test board is designed for VHF.

Dave - wb6dhw.com
<http://wb6dhw.com>

On 6/24/2015 7:42 PM, edfinn11@... [UHFSDR] wrote:
>
> how did you get to this combination?
>
> the data sheet shows a 100nH on the test board. in a series combo,
> 3.3uH would dominate...
>
>

1975. Re: [UHFSDR] frequency control

Yahoo group: UHFSDR
Date: 2015-06-25 04:46:50 UTC
From: Mike
Topic: 1941 Message: 1975

Ok .. so the hmc482 can hit 5Ghz

... seen its power out at +22dbm(Datasheets360) ....

I wonder if the top end could benefit from a 100nH in series with the 560nH (L1) .... or 56nH ... they list several chokes for various frequency's .... all the way to 5Ghz with a 5.6uH ...

humm .. they also use a 100pF for DC blocking on the input and out ...

wonder if a 100pF paralleled with C9 & C16 might help with near microwave bands ... 900mhz and 1.2/2.4Ghz ....

see .. its late and im going off dreaming again .....

On 06/24/2015 09:11 PM, Mike Patriot121@... [UHFSDR] wrote:
>
> And the other thought is that a 16bit soundcard might not have enough
> resolution for the I/Q balance to null out the oppisite side band ---
> ... i havent thought about this enough to come to a logical conclusion ...
>
> On 06/24/2015 08:52 PM, Mike Patriot121@... [UHFSDR] wrote:
>>
>> Its what i had ....
>>
>> Its because the HF gain degragates because of the 100nH ... as i
>> understand it , it has a Xl of 1.1ohms @ 1.8Mhz
>> @ 1.9Mhz the 3.3uH is 40 ohms .....
>>
>> the test jig that they show is tested from 400Mhz to 3Ghz .... we
>> don't need that high of a performance .... maybe ?
>>
>> I was just trying to increase the HF gain some more (or reduce the
>> loss from such a low impedance)
>> ... but not alot since the spf5043 has more gain than the 612 ....
>> and you don't need alot of gain on 160M !!!
>>
>> when i added the 3.3uH i lost about 3db of signal on 2M, not sure how
>> much on 440Mhz .. i dont have a filter yet for that band and didn't
>> want to Tx (bring up a repeater for Rx comparison ---- before and
>> after screen capture with same soundcard levels)
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>> Some one needs to experiment with values .... i don't think the
>> UHFSDR can Rx/Tx much above 1.2Ghz .. i might be wrong .... (really
>> wish some one would set the Si570 to 650Mhz (800Mhz/2) or so and see
>> just how much power is in the 3rd through to the 15th harmonic ....

>>
>> Id love to see 2.4Ghz or more ... even 10mW would do ....) i think) ....
>>
>> Iv not done much microwave stuff ... but i do have 7 Internet
>> satellite dish set up's .. one of wich i think was on 26Ghz ... the
>> rest were 11-12Ghz .... (10.368Ghz anyone?) --- plans for the future
>> -- hope to try before i die ...
>>
>>
>>
>> On 06/24/2015 07:42 PM, edfinn11@... [UHFSDR] wrote:
>>>
>>> how did you get to this combination?
>>>
>>> the data sheet shows a 100nH on the test board. in a series combo,
>>> 3.3uH would dominate...
>>>
>>
>> --
>> Mike KC7NOA
>
> --
> Mike KC7NOA
>

--
Mike KC7NOA

1976. Driving UHFSDR from USB2SDR

Yahoo group: UHFSDR
Date: 2015-06-27 19:26:00 UTC
From: g.suggate@...
Topic: 1976 Message: 1976

For some time I have been having trouble with low o/p from the UHFSDR board. Having checked everything else I am wondering if I am getting sufficient I/Q drive on TX from the USB2SDR board. (I wonder what it is supposed to be?). I notice that SV1EIA designed a separate amp board to boost these signals, but I have never seen any reference to it being used.

So my query- Has anybody had to boost the I/Q drive when using a USB2SDR card and did it increase the o/p. (my o/p at the moment is only a few milli watts). I also have a problem with what appears to be leaking carrier which is about 600hz away from the main carrier and only 20dB down. My thought now is if I could increase the I/Q level this would improve this difference between the leaking carrier (which does not come from the I/Q) and the main carrier.

Thanks in advance

Geoff G3NPI Buckingham UK

1977. Re: [UHFSDR] Mitsubishi Mosfet Power Modules

Yahoo group: UHFSDR
Date: 2015-06-30 21:40:47 UTC
From: Patriot121@...
Topic: 1132 Message: 1977

Finally made a purchase ....

Went with the RA60H1317M1A .... saposed to be able to run it class C or AB ...

Does anyone have voltage levels for the gate to be close to linear?

All i know is that it will be some where between 4.5V and 5V (thats what i take away from the PDF)

Im not sure if all newer fet modules can be ran in a linear mode .... but i figured ill run 60W FM and if i get 40W SSB .. thats good enuff for now ....

If i need more power... ill build a GS-35B based 2M amp to hit around 2kw .... (but i doubt ill do that)

Im planning on re-tro fitting a 200W CB amp i have --- for the heatsink .. and a old police 60W 2M(close to) amp for its relays and such ....

1978. Re: [UHFSDR] Mitsubishi Mosfet Power Modules

Yahoo group: UHFSDR
Date: 2015-06-30 21:59:30 UTC
From: Vince Mulhollon
Topic: 1132 Message: 1978

On Tue, Jun 30, 2015 at 4:40 PM, Patriot121@... [UHFSDR] <
UHFSDR@yahoogroups.com> wrote:

>
> Finally made a purchase ....
>
> Went with the RA60H1317M1A .... saposed to be able to run it class C or AB
> ...
>
> Does anyone have voltage levels for the gate to be close to linear?
>

I don't have an exact answer for you but mini-kits out of Australia sells
support boards for that exact RF module and other things I've bought from
them have worked.

73 de Vince N9NFB

1979. Re: [UHFSDR] Mitsubishi Mosfet Power Modules

Yahoo group: UHFSDR
Date: 2015-06-30 22:02:19 UTC
From: Patriot121@...
Topic: 1132 Message: 1979

Does any one know if the bias can be left running .. and only switch VDD 13.8V ?

1980. Re: [UHFSDR] Mitsubishi Mosfet Power Modules

Yahoo group: UHFSDR
Date: 2015-06-30 22:19:06 UTC
From: Dave
Topic: 1132 Message: 1980

You would have to monitor the drain current and adjust the bias until
you get the no-signal desired drain current. Due to slight variations
between devices, the vaotage will be close, but small differences make a
big difference in drain current.

Dave - WB6DHW
<http://wb6dhw.com>

On 6/30/2015 2:40 PM, Patriot121@... [UHFSDR] wrote:
>
> Finally made a purchase ....
>
> Went with the RA60H1317M1A .... saposed to be able to run it class C
> or AB ...
>
> Does anyone have voltage levels for the gate to be close to linear?
>
> All i know is that it will be some where between 4.5V and 5V (thats
> what i take away from the PDF)
>
> Im not sure if all newer fet modules can be ran in a linear mode ....
> but i figured ill run 60W FM and if i get 40W SSB .. thats good enuff
> for now ....
>
> If i need more power... ill build a GS-35B based 2M amp to hit around
> 2kw .... (but i doubt ill do that)
>
> Im planning on re-tro fitting a 200W CB amp i have --- for the
> heatsink .. and a old police 60W 2M(close to) amp for its relays and
> such ....
>
>

1981. Re: [UHFSDR] Mitsubishi Mosfet Power Modules

Yahoo group: UHFSDR
Date: 2015-07-01 00:13:44 UTC
From: Kirk Maskalenko
Topic: 1132 Message: 1981

W6pql has a board for some of the Mitsubishi modules. Don't know if it works with that module but he has lots of amp stuff you would probably be interested in. The bias circuit for the 80w 2m amp might work though it's for a toshiba amp.

http://www.w6pql.com/parts_i_can_provide.htm

One lesson I learned on using one of the Vhf modules is the gain on some of these modules is very high. You must use quality relays to isolate the input and output otherwise you get a mighty fine oscillator and ended up toasting the module.

73,

WB8C Kirk

Sent from my iPad

> On Jun 30, 2015, at 5:40 PM, Patriot121@... [UHFSDR] <UHFSDR@yahoogroups.com> wrote:
>
> Finally made a purchase ....
>
> Went with the RA60H1317M1A .... saposed to be able to run it class C or AB ...
>
> Does anyone have voltage levels for the gate to be close to linear?
>
> All i know is that it will be some where between 4.5V and 5V (thats what i take away from the PDF)
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> Im not sure if all newer fet modules can be ran in a linear mode .... but i figured ill run 60W FM and if i get 40W SSB .. thats good enuff for now ....
>
> If i need more power... ill build a GS-35B based 2M amp to hit around 2kw .... (but i doubt ill do that)
>
> Im planning on re-tro fitting a 200W CB amp i have --- for the heatsink .. and a old police 60W 2M(close to) amp for its relays and such ....
>
>

1982. Re: [UHFSDR] Mitsubishi Mosfet Power Modules

Yahoo group: UHFSDR
Date: 2015-07-01 00:31:11 UTC
From: Mike
Topic: 1132 Message: 1982

HA !!!!

yea i do plan on using more than 1 relay .. that's what partly killed
the old police VHF amp .... its driver was blown, and since its just a
FM class C i didn't see the need to fix it ...

On 06/30/2015 05:13 PM, Kirk Maskalenko n4kwo@... [UHFSDR] wrote:
> W6pql has a board for some of the Mitsubishi modules. Don't know if it
> works with that module but he has lots of amp stuff you would probably
> be interested in. The bias circuit for the 80w 2m amp might work
> though it's for a toshiba amp.
>
> http://www.w6pql.com/parts_i_can_provide.htm
>
> One lesson I learned on using one of the Vhf modules is the gain on
> some of these modules is very high. You must use quality relays to
> isolate the input and output otherwise you get a mighty fine
> oscillator and ended up toasting the module.
>
> 73,
>
> WB8C Kirk
>
>
> Sent from my iPad
>
> On Jun 30, 2015, at 5:40 PM, Patriot121@...
> <mailto:Patriot121@...> [UHFSDR] <UHFSDR@yahoogroups.com
> <mailto:UHFSDR@yahoogroups.com>> wrote:
>
>> Finally made a purchase ....
>>
>> Went with the RA60H1317M1A .... saposed to be able to run it class C
>> or AB ...
>>
>> Does anyone have voltage levels for the gate to be close to linear?
>>
>> All i know is that it will be some where between 4.5V and 5V (thats
>> what i take away from the PDF)
>>
>> Im not sure if all newer fet modules can be ran in a linear mode ....
>> but i figured ill run 60W FM and if i get 40W SSB .. thats good enuff
>> for now ....
>>
>> If i need more power... ill build a GS-35B based 2M amp to hit around

>> 2kw .... (but i doubt ill do that)
>>
>> Im planning on re-tro fitting a 200W CB amp i have --- for the
>> heatsink .. and a old police 60W 2M(close to) amp for its relays and
>> such ....
>>
>

--
Mike KC7NOA

1983. Re: Mitsubishi Mosfet Power Modules

Yahoo group: UHFSDR
Date: 2015-07-01 07:35:17 UTC
From: Clive Jenner
Topic: 1132 Message: 1983

Hi, it's best to switch the bias (less current to switch) you can leave the 13.8 Volts running.

73 Clive GW0PPO

1984. Diplexer Kit 1.5KW

Yahoo group: UHFSDR
Date: 2015-07-01 13:39:30 UTC
From: joeprice@...
Topic: 1984 Message: 1984

Dave.

Any of these boards on hand? What are the relays,any BOM?

Tnx joe wa9cgz

1985. Re: [UHFSDR] Diplexer Kit 1.5KW

Yahoo group: UHFSDR
Date: 2015-07-01 21:48:36 UTC
From: Dave
Topic: 1984 Message: 1985

Joe:
I have boards in stock. The relay part number is AZ755-1C-12DE and
is available from
<http://www.onlinecomponents.com/american-zettler-az7551c12de.html?p=10614948&utm_content=PkH2423e&utm_medium=cpc&utm_source=google&utm_campaign=SKUs+6&utm_term=az755-1c-12de&cshift_ck=FA8E58A7-51A1-4386-B0C3-EAD7CC83A7F0csPkH2423e>
for $2.12 each. Also available from other places. They are also
available with other coil voltages besides 12VDC. I don't think I have
an overall BOM for the whole set. Depends on which bands you use and if
you use my design or do your own. I could generate one for my design.

Dave - WB6DHW
http://wb6dhw.com>

On 7/1/2015 6:39 AM, joeprice@... [UHFSDR] wrote:
>
> Dave.
>
>
> Any of these boards on hand? What are the relays,any BOM?
>
>
> Tnx joe wa9cgz
>
>

1986. Re: [UHFSDR] Diplexer Kit 1.5KW

Yahoo group: UHFSDR
Date: 2015-07-02 14:11:23 UTC
From: joeprice@...
Topic: 1984 Message: 1986

Dave,

I ordered a couple of boards to play with. If I can
figure out how to mount them with short connections
I will order some more.

Tnx joe wa9cgz

1987. toko passive dielectric filters

Yahoo group: UHFSDR
Date: 2015-07-04 02:07:24 UTC
From: Mike
Topic: 1987 Message: 1987

Does any one have a clue to how much power / signal can safely pass through toko passive dielectric filters like a 6DFA-915E ?

i cant find squat on the max signal level ....

--
Mike KC7NOA

1988. vhf amp filters

Yahoo group: UHFSDR
Date: 2015-07-07 18:53:57 UTC
From: Mike
Topic: 1988 Message: 1988

So .. just a slight update ...

just found and bought a 100W low pass filter ebay 252007720325 .... to go along with a RA60H1317M1A that just arrived yesterday ....

was going to use a BPF that i have ... but i didn't exactly want to seperate the 6 cavities into a pair of 3 ....

I was going to use this configuration .... radio ---> 3cavity BPF -----> RA60H1317 ----> 3cavity BPF ----> coax to antenna
********** relay for Rx ******

now only the amp and lowpass filter will be on a RF relay ..... 6cavity BPF will be inline all the time ...

--
Mike KC7NOA

1989. pcb layout

Yahoo group: UHFSDR
Date: 2015-07-10 21:52:26 UTC
From: Mike
Topic: 1989 Message: 1989

Any one know of a source for a RA60H pcb layout ?

Id like to just etch my own boards .. or know of a really cheap source ?

--
Mike KC7NOA

1990. Re: [UHFSDR] pcb layout

Yahoo group: UHFSDR
Date: 2015-07-11 03:40:13 UTC
From: Mike
Topic: 1989 Message: 1990

Well i came across this and couldn't resist ...

ebay ,,, 131372178363

populated board and its less than what you can buy from RfParts (bare)

On 07/10/2015 02:52 PM, Mike Patriot121@... [UHFSDR] wrote:
>
> Any one know of a source for a RA60H pcb layout ?
>
> Id like to just etch my own boards .. or know of a really cheap source ?
>
> --
> Mike KC7NOA
>
>

--
Mike KC7NOA

1991. New file uploaded to UHFSDR

Yahoo group: UHFSDR
Date: 2015-07-13 02:49:16 UTC
From: UHFSDR@yahoogroups.com
Topic: 2 Message: 1991

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the UHFSDR
group.

File : /KC7NOA Quisk3.7 for UHFSDR/hardware_usb.py
Uploaded by : seth_otherpower <Patriot121@...>
Description : replace in /quisk/softrock folder

You can access this file at the URL:
https://groups.yahoo.com/neo/groups/UHFSDR/files/KC7NOA%20Quisk3.7%20for%20UHFSDR/hardware_usb.py

To learn more about file sharing for your group, please visit:
https://help.yahoo.com/kb/index?page=content&y=PROD_GRPS&locale=en_US&id=SLN15398

Regards,

seth_otherpower <Patriot121@...>

1992. replacement hardware_usb.py for Quisk

Yahoo group: UHFSDR
Date: 2015-07-13 02:56:45 UTC
From: Mike
Topic: 1992 Message: 1992

If any one wants to use quisk with a UHFSDR that has a Class "A" Si570 thats using a PE0FKO type emulated or AVR

i have uploaded a replacement hardware_usb.py that belongs in the quisk/softrock folder ....

i don't know why the previous code lines are not being used with my PE0FKO V15.15 AVR thats in quisk .... but this is what worked for me ...

YMMV

--
Mike KC7NOA

1993. spectrum analysed

Yahoo group: UHFSDR
Date: 2015-07-13 15:48:31 UTC
From: Mike
Topic: 1993 Message: 1993

This week i will be taking my UHFSDR to my local VHF club Tech and will be using a spectrum analyser to look at my harmonic content when my Si570 is set to its max freq ..... 708.5Mhz ... im hoping to get a screen capture on the spectrum out to the 15th harmonic .... or what ever it can do

--
Mike KC7NOA

1994. Re: [UHFSDR] spectrum analysed

Yahoo group: UHFSDR
Date: 2015-07-13 18:53:04 UTC
From: Jean-Paul Louis
Topic: 1993 Message: 1994

Mike,
To do what you hope to accomplish, you need a 12GHz(10.6275GHz) spectrum analyzer. That's an expensive piece of equipment.
Why do you need to look that high?

Just curious,
Jean-Paul
AC9GH

> On Jul 13, 2015, at 11:48 AM, Mike Patriot121@... [UHFSDR] <UHFSDR@yahoogroups.com> wrote:
>
> This week i will be taking my UHFSDR to my local VHF club Tech and will
> be using a spectrum analyser to look at my harmonic content when my
> Si570 is set to its max freq ..... 708.5Mhz ... im hoping to get a
> screen capture on the spectrum out to the 15th harmonic .... or what
> ever it can do
>
> --
> Mike KC7NOA
>
>
>

1995. Re: [UHFSDR] spectrum analysed

Yahoo group: UHFSDR
Date: 2015-07-13 19:02:26 UTC
From: Mike
Topic: 1993 Message: 1995

dont need to ... want to ... and this guy im going over to used to work for Agilent as an RF engineer .... the analyser is a 24Ghz thing ...

Im thinking that the rolloff above 4ghz will be severe .... but some one has to look to know.

10Ghz with out a transverter would be nice ... but i dont think thats possible ....

On 07/13/2015 11:53 AM, Jean-Paul Louis louijp@yahoo.com [UHFSDR] wrote:
>
> Mike,
> To do what you hope to accomplish, you need a 12GHz(10.6275GHz)
> spectrum analyzer. That’s an expensive piece of equipment.
> Why do you need to look that high?
>
> Just curious,
> Jean-Paul
> AC9GH
>
> > On Jul 13, 2015, at 11:48 AM, Mike Patriot121@msn.com [UHFSDR]
> <UHFSDR@yahoogroups.com> wrote:
> >
> > This week i will be taking my UHFSDR to my local VHF club Tech and will
> > be using a spectrum analyser to look at my harmonic content when my
> > Si570 is set to its max freq ..... 708.5Mhz ... im hoping to get a
> > screen capture on the spectrum out to the 15th harmonic .... or what
> > ever it can do
> >
> > --
> > Mike KC7NOA
> >
> >
> >
>
>

--
Mike KC7NOA

1996. Re: [UHFSDR] spectrum analysed

Yahoo group: UHFSDR
Date: 2015-07-13 23:20:53 UTC
From: louijp
Topic: 1993 Message: 1996

Mike,you could use the SI570 to generate the LO for the 10GHz band. If the square wave is perfectly formed, the 15th harmonic is only 24dB below the fundamental. So you can add an amp and a filter to drive a down-mixer.
Just my $0.02.73 de Jean-PaulAC9GH

Sent from my Verizon Wireless 4G LTE smartphone

-------- Original message --------
From: "Mike Patriot121@msn.com [UHFSDR]" <UHFSDR@yahoogroups.com>
Date: 2015/07/13 3:02 PM (GMT-05:00)
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] spectrum analysed

dont need to ... want to ... and this guy im going over to used to work for Agilent as an RF engineer .... the analyser is a 24Ghz thing ...

Im thinking that the rolloff above 4ghz will be severe .... but some one has to look to know.

10Ghz with out a transverter would be nice ... but i dont think thats possible ....

On 07/13/2015 11:53 AM, Jean-Paul Louis louijp@yahoo.com [UHFSDR] wrote:

Mike,

To do what you hope to accomplish, you need a 12GHz(10.6275GHz) spectrum analyzer. That’s an expensive piece of equipment.

Why do you need to look that high?

Just curious,

Jean-Paul

AC9GH

> On Jul 13, 2015, at 11:48 AM, Mike Patriot121@msn.com [UHFSDR] <UHFSDR@yahoogroups.com> wrote:

>

> This week i will be taking my UHFSDR to my local VHF club Tech and will

> be using a spectrum analyser to look at my harmonic content when my

> Si570 is set to its max freq ..... 708.5Mhz ... im hoping to get a

> screen capture on the spectrum out to the 15th harmonic .... or what

> ever it can do

>

> --

> Mike KC7NOA

>

>

>

--
Mike KC7NOA

1997. Re: [UHFSDR] spectrum analysed

Yahoo group: UHFSDR
Date: 2015-07-13 23:43:41 UTC
From: Dave
Topic: 1993 Message: 1997

Mike:
You would also need to change mixers on the UHFSDR. The ADE-2ASK is rated to 1 GHz(don't know how much higher it might go). Minicircuits does have other higher freq. mixers with the same pin-out.

Dave - WB6DHW
<http://wb6dhw.com>

On 7/13/2015 4:20 PM, louijp louijp@... [UHFSDR] wrote:
>
> Mike,
> you could use the SI570 to generate the LO for the 10GHz band. If the
> square wave is perfectly formed, the 15th harmonic is only 24dB below
> the fundamental. So you can add an amp and a filter to drive a down-mixer.
>
> Just my $0.02.
> 73 de Jean-Paul
> AC9GH
>
>
>
> Sent from my Verizon Wireless 4G LTE smartphone
>
>
> -------- Original message --------
> From: "Mike Patriot121@... [UHFSDR]" <UHFSDR@yahoogroups.com>
> Date: 2015/07/13 3:02 PM (GMT-05:00)
> To: UHFSDR@yahoogroups.com
> Subject: Re: [UHFSDR] spectrum analysed
>
> dont need to ... want to ... and this guy im going over to used to
> work for Agilent as an RF engineer .... the analyser is a 24Ghz thing ...
>
> Im thinking that the rolloff above 4ghz will be severe .... but some
> one has to look to know.
>
> 10Ghz with out a transverter would be nice ... but i dont think thats
> possible ....
>
> On 07/13/2015 11:53 AM, Jean-Paul Louis louijp@... [UHFSDR] wrote:
>>
>> Mike,
>> To do what you hope to accomplish, you need a 12GHz(10.6275GHz)
>> spectrum analyzer. That’s an expensive piece of equipment.
>> Why do you need to look that high?

>>
>> Just curious,
>> Jean-Paul
>> AC9GH
>>
>> > On Jul 13, 2015, at 11:48 AM, Mike Patriot121@... [UHFSDR]
>> <UHFSDR@yahoogroups.com> wrote:
>> >
>> > This week i will be taking my UHFSDR to my local VHF club Tech and
>> will
>> > be using a spectrum analyser to look at my harmonic content when my
>> > Si570 is set to its max freq ..... 708.5Mhz ... im hoping to get a
>> > screen capture on the spectrum out to the 15th harmonic .... or what
>> > ever it can do
>> >
>> > --
>> > Mike KC7NOA
>> >
>> >
>> >
>>
>
> --
> Mike KC7NOA
>

1998. Re: [UHFSDR] spectrum analysed

Yahoo group: UHFSDR
Date: 2015-07-14 00:46:32 UTC
From: <Patriot121@...>
Topic: 1993 Message: 1998

Hummm... I thought they were 4ghz ... oh well .... no worries

Sent by Outlook for Android

On Mon, Jul 13, 2015 at 4:44 PM -0700, "Dave dave@wb6dhw.com [UHFSDR]"
<UHFSDR@yahoogroups.com> wrote:
Mike:
You would also need to change mixers on the UHFSDR. The ADE-2ASK is
rated to 1 GHz(don't know how much higher it might go). Minicircuits
does have other higher freq. mixers with the same pin-out.

Dave - WB6DHW
<http://wb6dhw.com>

On 7/13/2015 4:20 PM, louijp louijp@... [UHFSDR] wrote:
>
> Mike,
> you could use the SI570 to generate the LO for the 10GHz band. If the
> square wave is perfectly formed, the 15th harmonic is only 24dB below
> the fundamental. So you can add an amp and a filter to drive a down-mixer.
>
> Just my $0.02.
> 73 de Jean-Paul
> AC9GH
>
>
>
> Sent from my Verizon Wireless 4G LTE smartphone
>
>
> -------- Original message --------
> From: "Mike Patriot121@... [UHFSDR]" <UHFSDR@yahoogroups.com>
> Date: 2015/07/13 3:02 PM (GMT-05:00)
> To: UHFSDR@yahoogroups.com
> Subject: Re: [UHFSDR] spectrum analysed
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> dont need to ... want to ... and this guy im going over to used to
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> 10Ghz with out a transverter would be nice ... but i dont think thats
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>> > screen capture on the spectrum out to the 15th harmonic .... or what
>> > ever it can do
>> >
>> > --
>> > Mike KC7NOA
>> >
>> >
>> >
>>
>
> --
> Mike KC7NOA
>

1999. Re: [UHFSDR] spectrum analysed

Yahoo group: UHFSDR
Date: 2015-07-14 01:33:43 UTC
From: Mike
Topic: 1993 Message: 1999

do you have a link to a selection chart?

On 07/13/2015 04:43 PM, Dave dave@... [UHFSDR] wrote:
>
> Mike:
> You would also need to change mixers on the UHFSDR. The ADE-2ASK is
> rated to 1 GHz(don't know how much higher it might go). Minicircuits
> does have other higher freq. mixers with the same pin-out.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 7/13/2015 4:20 PM, louijp louijp@... [UHFSDR] wrote:
>>
>> Mike,
>> you could use the SI570 to generate the LO for the 10GHz band. If the
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>> the fundamental. So you can add an amp and a filter to drive a
>> down-mixer.
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>> Just my $0.02.
>> 73 de Jean-Paul
>> AC9GH
>>
>>
>>
>> Sent from my Verizon Wireless 4G LTE smartphone
>>
>>
>> -------- Original message --------
>> From: "Mike Patriot121@... [UHFSDR]" <UHFSDR@yahoogroups.com>
>> Date: 2015/07/13 3:02 PM (GMT-05:00)
>> To: UHFSDR@yahoogroups.com
>> Subject: Re: [UHFSDR] spectrum analysed
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>> dont need to ... want to ... and this guy im going over to used to
>> work for Agilent as an RF engineer .... the analyser is a 24Ghz thing ...
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>> Im thinking that the rolloff above 4ghz will be severe .... but some
>> one has to look to know.
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>> 10Ghz with out a transverter would be nice ... but i dont think thats
>> possible ....
>>
>> On 07/13/2015 11:53 AM, Jean-Paul Louis louijp@... [UHFSDR] wrote:

>>>
>>> Mike,
>>> To do what you hope to accomplish, you need a 12GHz(10.6275GHz)
>>> spectrum analyzer. That’s an expensive piece of equipment.
>>> Why do you need to look that high?
>>>
>>> Just curious,
>>> Jean-Paul
>>> AC9GH
>>>
>>> > On Jul 13, 2015, at 11:48 AM, Mike Patriot121@... [UHFSDR]
>>> <UHFSDR@yahoogroups.com> wrote:
>>> >
>>> > This week i will be taking my UHFSDR to my local VHF club Tech and
>>> will
>>> > be using a spectrum analyser to look at my harmonic content when my
>>> > Si570 is set to its max freq ..... 708.5Mhz ... im hoping to get a
>>> > screen capture on the spectrum out to the 15th harmonic .... or what
>>> > ever it can do
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>>> > --
>>> > Mike KC7NOA
>>> >
>>> >
>>> >
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>>
>> --
>> Mike KC7NOA
>
>

--
Mike KC7NOA

2000. Re: [UHFSDR] spectrum analysed

Yahoo group: UHFSDR
Date: 2015-07-14 01:50:07 UTC
From: Mike
Topic: 1993 Message: 2000

The best one i could find with the same case and schematic layout was
the ade-30w ... 5mhz to 4ghz ...

On 07/13/2015 06:33 PM, Mike Patriot121@msn.com [UHFSDR] wrote:
>
> do you have a link to a selection chart?
>
> On 07/13/2015 04:43 PM, Dave dave@... [UHFSDR] wrote:
>>
>> Mike:
>> You would also need to change mixers on the UHFSDR. The ADE-2ASK is
>> rated to 1 GHz(don't know how much higher it might go). Minicircuits
>> does have other higher freq. mixers with the same pin-out.
>>
>> Dave - WB6DHW
>> <http://wb6dhw.com>
>>
>> On 7/13/2015 4:20 PM, louijp louijp@... [UHFSDR] wrote:
>>>
>>> Mike,
>>> you could use the SI570 to generate the LO for the 10GHz band. If
>>> the square wave is perfectly formed, the 15th harmonic is only 24dB
>>> below the fundamental. So you can add an amp and a filter to drive a
>>> down-mixer.
>>>
>>> Just my $0.02.
>>> 73 de Jean-Paul
>>> AC9GH
>>>
>>>
>>>
>>> Sent from my Verizon Wireless 4G LTE smartphone
>>>
>>>
>>> -------- Original message --------
>>> From: "Mike Patriot121@... [UHFSDR]" <UHFSDR@yahoogroups.com>
>>> Date: 2015/07/13 3:02 PM (GMT-05:00)
>>> To: UHFSDR@yahoogroups.com
>>> Subject: Re: [UHFSDR] spectrum analysed
>>>
>>> dont need to ... want to ... and this guy im going over to used to
>>> work for Agilent as an RF engineer .... the analyser is a 24Ghz
>>> thing ...
>>>
>>> Im thinking that the rolloff above 4ghz will be severe .... but some

>>> one has to look to know.
>>>
>>> 10Ghz with out a transverter would be nice ... but i dont think
>>> thats possible ....
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>>> On 07/13/2015 11:53 AM, Jean-Paul Louis louijp@... [UHFSDR] wrote:
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>>>> Mike,
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>>>> Just curious,
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>>> --
>>> Mike KC7NOA
>>
>
> --
> Mike KC7NOA
>

--
Mike KC7NOA

2001. Re: [UHFSDR] spectrum analysed

Yahoo group: UHFSDR
Date: 2015-07-14 01:52:26 UTC
From: Mike
Topic: 1993 Message: 2001

typo .. 300mhz to 4ghz .... not so good i guess ...

On 07/13/2015 06:50 PM, Mike Patriot121@... [UHFSDR] wrote:
>
> The best one i could find with the same case and schematic layout was
> the ade-30w ... 5mhz to 4ghz ...
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> On 07/13/2015 06:33 PM, Mike Patriot121@... [UHFSDR] wrote:
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>>> Minicircuits does have other higher freq. mixers with the same pin-out.
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>>> Dave - WB6DHW
>>> <http://wb6dhw.com>
>>>
>>> On 7/13/2015 4:20 PM, louijp louijp@... [UHFSDR] wrote:
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>>>> Mike,
>>>> you could use the SI570 to generate the LO for the 10GHz band. If
>>>> the square wave is perfectly formed, the 15th harmonic is only 24dB
>>>> below the fundamental. So you can add an amp and a filter to drive
>>>> a down-mixer.
>>>>
>>>> Just my $0.02.
>>>> 73 de Jean-Paul
>>>> AC9GH
>>>>
>>>>
>>>>
>>>> Sent from my Verizon Wireless 4G LTE smartphone
>>>>
>>>>
>>>> -------- Original message --------
>>>> From: "Mike Patriot121@... [UHFSDR]" <UHFSDR@yahoogroups.com>
>>>> Date: 2015/07/13 3:02 PM (GMT-05:00)
>>>> To: UHFSDR@yahoogroups.com
>>>> Subject: Re: [UHFSDR] spectrum analysed
>>>>
>>>> dont need to ... want to ... and this guy im going over to used to

>>>> work for Agilent as an RF engineer .... the analyser is a 24Ghz
>>>> thing ...
>>>>
>>>> Im thinking that the rolloff above 4ghz will be severe .... but
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>>>>> > Si570 is set to its max freq ..... 708.5Mhz ... im hoping to get a
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> Mike KC7NOA
>

--
Mike KC7NOA

2002. Re: [UHFSDR] spectrum analysed

Yahoo group: UHFSDR
Date: 2015-07-14 02:31:35 UTC
From: Dave
Topic: 1993 Message: 2002

The only selection chart I have (for +7dBm LO) is at
<http://www.minicircuits.com/products/fm_sm_level_7.shtml>

Dave - WB6DHW
<http://wb6dhw.com>

On 7/13/2015 6:33 PM, Mike Patriot121@... [UHFSDR] wrote:
>
> do you have a link to a selection chart?
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> On 07/13/2015 04:43 PM, Dave dave@... [UHFSDR] wrote:
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>> You would also need to change mixers on the UHFSDR. The ADE-2ASK is
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>>> Mike,
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>>> the square wave is perfectly formed, the 15th harmonic is only 24dB
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>>> Sent from my Verizon Wireless 4G LTE smartphone
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>>>
>>> -------- Original message --------
>>> From: "Mike Patriot121@... [UHFSDR]" <UHFSDR@yahoogroups.com>
>>> Date: 2015/07/13 3:02 PM (GMT-05:00)
>>> To: UHFSDR@yahoogroups.com
>>> Subject: Re: [UHFSDR] spectrum analysed
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>>> dont need to ... want to ... and this guy im going over to used to
>>> work for Agilent as an RF engineer .... the analyser is a 24Ghz

>>> thing ...
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>>> Im thinking that the rolloff above 4ghz will be severe .... but some
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>>>> > Si570 is set to its max freq ..... 708.5Mhz ... im hoping to get a
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>>>> > Mike KC7NOA
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>>> Mike KC7NOA
>>
>
> --
> Mike KC7NOA
>

2003. bandpass filters

Yahoo group: UHFSDR
Date: 2015-07-16 06:10:34 UTC
From: Mike
Topic: 2003 Message: 2003

Has any seen a sweep of a 1/2 wave bandpass filter ?

http://www.k3pgp.org/432filter.htm

its quite the low loss ....

--
Mike KC7NOA

2004. 440 and 708mhz

Yahoo group: UHFSDR
Date: 2015-07-16 21:08:06 UTC
From: <Patriot121@...>
Topic: 2004 Message: 2004

Ok ... just got done having my uhfsdr looked at with a 24ghz spectrum analyzer.

My out put was less than 1mW on 708mhz and on 440mhz looked like some serious FM modulation or was breaking into oscillation.

Perhaps L1 should be modified to use the original 560nH wirh a 100nf in series ... as was done with R3, or my hmc482 is damaged ...

Thoughts?

Sent by Outlook for Android

2005. Re: [UHFSDR] 440 and 708mhz

Yahoo group: UHFSDR
Date: 2015-07-17 02:37:02 UTC
From: Mike
Topic: 2004 Message: 2005

typo ... again ...

560uH in series with 100nH

On 07/16/2015 02:08 PM, Patriot121@... [UHFSDR] wrote:
>
> Ok ... just got done having my uhfsdr looked at with a 24ghz spectrum
> analyzer.
>
> My out put was less than 1mW on 708mhz and on 440mhz looked like some
> serious FM modulation or was breaking into oscillation.
>
> Perhaps L1 should be modified to use the original 560nH wirh a 100nf
> in series ... as was done with R3, or my hmc482 is damaged ...
>
> Thoughts?
>
> Sent by Outlook <http://taps.io/outlookmobile> for Android
>
>

--
Mike KC7NOA

2006. Re: [UHFSDR] 440 and 708mhz

Yahoo group: UHFSDR
Date: 2015-07-17 06:18:05 UTC
From: Mike
Topic: 2004 Message: 2006

OK .... did the tomb stone with the 560uH and a 100nH ....

Still looks like it is breaking into oscillation in the 70cm band ....

148Mhz looks good still .... i need to finish my 2M amp as soon as the parts get here and re-assemble my dummy load onto another heat sink -- (im going to use the one i took the 50ohm 100W load off of for the 60w 2M amp)

Guess i need to buy a replacement HMC482 and try to get this sorted out ....

Any one reading the board have one for sale?

On 07/16/2015 07:37 PM, Mike Patriot121@msn.com [UHFSDR] wrote:
>
> typo ... again ...
>
> 560uH in series with 100nH
>
> On 07/16/2015 02:08 PM, Patriot121@... [UHFSDR] wrote:
>>
>> Ok ... just got done having my uhfsdr looked at with a 24ghz spectrum
>> analyzer.
>>
>> My out put was less than 1mW on 708mhz and on 440mhz looked like some
>> serious FM modulation or was breaking into oscillation.
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>> Thoughts?
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>> Sent by Outlook <http://taps.io/outlookmobile> for Android
>>
>
> --
> Mike KC7NOA
>

--
Mike KC7NOA

2007. Re: [UHFSDR] Re: HMC482 replacement

Yahoo group: UHFSDR
Date: 2015-07-20 00:20:13 UTC
From: Mike
Topic: 1913 Message: 2007

What was the output and what frequency span did you check?

HF or UHF ?

My**HMC482 seem to break into oscillation (durring Tx) around 200Mhz or
so ....

On 04/12/2015 10:09 AM, g.suggate@... [UHFSDR] wrote:
>
> Just to complete this topic. I have managed to tame the MMG3H21NT1
> albeit with a slightly reduced gain. My set up is U3 regulator changed
> to 5v, R2 27 ohms, Inductor shunted by 47ohms. Hope this helps anyone
> with the same problem.
>
>
> 73
>
> Geoff G3NPI Buckingham UK
>

--
Mike KC7NOA

2008. Re: The Oscillating PA

Yahoo group: UHFSDR
Date: 2015-07-21 01:20:03 UTC
From: Patriot121@...
Topic: 810 Message: 2008

This is an older message ...

I would like to know what frequencies did you test this at?

Did you go to the limit of which the Si570 grade A could do ?

708.5Mhz ?

2009. Re: [UHFSDR] Re: The Oscillating PA

Yahoo group: UHFSDR
Date: 2015-07-21 01:25:52 UTC
From: Mike
Topic: 810 Message: 2009

It had slipped my mind that i did indeed read this in the past ....

and i have not added a 470Ohm resister in parallel with L1 .... i'm sure
i can get that done and see if my oscillation durring Tx goes away ....

Kinda wish i had that 3.3uH inductor ... lol

On 07/20/2015 06:20 PM, Patriot121@msn.com [UHFSDR] wrote:
>
> This is an older message ...
>
> I would like to know what frequencies did you test this at?
>
> Did you go to the limit of which the Si570 grade A could do ?
>
> 708.5Mhz ?
>
>

--
Mike KC7NOA

2010. Re: [UHFSDR] Re: The Oscillating PA

Yahoo group: UHFSDR
Date: 2015-07-21 07:02:46 UTC
From: Mike
Topic: 810 Message: 2010

Ok ...

Well im a bit confused at teh moment ...

I should of tested hf and 70cm for each change ....

at first i couldn't find a 470 ohm resistor ... so i started with a 1K and figured if i didn't see a change that i could drop another on (1K / 2 = 500 ohm)

Didn't see a change on 70cm Tx oscillation so i went on to adding another 1k .... of corse now im wishing after all is done for the nite that i had tested hf before moving on

with 500ohm across L1, 70cm seemed to tame down and not throw trash .... went to the highest area of my scanner could go that the UHFSDR matched ... 512Mhz .... hit the Tx and ... no dice.

ok ... i figure ill go still lower in value that i have on hand 330 ohm ... still no 512Mhz , so i figure ill pull the 330 out and take some more time looking for my other SMD parts bag.

I figure ok, i can live with not much above 70cm for now .... so i check 80M ... no power, then 40 and the 10m ... nothin.

pull out the 330 ohm and root around for a while untill i find the bag with my 2nd stash of SMD resistors. Get the 470 ohm installed across L1 and check 450Mhz ... its ok .... still no 512Mhz and hf is split for working. 40M works but nothin on 75M ...

I figure its late and ill post so far what i have done .... and maybe some one will respond that has gone in front of me.

what does it take to get the MHC482 to operate higher in freq .... i would like 708.5Mhz and 160M .... but right now im hopeing that 160M to 70cm is possible with the right selection of parts ...

Perhaps leave the 560uH but replace the 100nH with a 3.3uH like is listed as an alternative .....

making for a 470 ohm resistor in parallel with a (560uH in series with a 3.3uH) ....

what sounds like a corse of action to you Dave? ---- i do kinda wonder if the hmc482 was damaged when U4 and U7 quit at about the same time ... hard to remember ..

On 07/20/2015 06:25 PM, Mike Patriot121@... [UHFSDR] wrote:
>
> It had slipped my mind that i did indeed read this in the past ....
>
> and i have not added a 470Ohm resister in parallel with L1 .... i'm
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>> 708.5Mhz ?
>>
>
> --
> Mike KC7NOA
>

--
Mike KC7NOA

2011. Re: [UHFSDR] Re: The Oscillating PA

Yahoo group: UHFSDR
Date: 2015-07-21 16:17:04 UTC
From: Mike
Topic: 810 Message: 2011

a config i didn't think of last nite ...

L1 = 3.3uH paralleled with a 1K(or lower) in series with a 100nH .....

im thinking more clearly this morning .. and i see that i relayed
incorrect choke values ...

On 07/21/2015 12:02 AM, Mike Patriot121@... [UHFSDR] wrote:
>
> Ok ...
>
> Well im a bit confused at teh moment ...
>
> I should of tested hf and 70cm for each change ....
>
> at first i couldn't find a 470 ohm resistor ... so i started with a 1K
> and figured if i didn't see a change that i could drop another on (1K
> / 2 = 500 ohm)
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> Didn't see a change on 70cm Tx oscillation so i went on to adding
> another 1k .... of corse now im wishing after all is done for the nite
> that i had tested hf before moving on
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> with 500ohm across L1, 70cm seemed to tame down and not throw trash
> .... went to the highest area of my scanner could go that the UHFSDR
> matched ... 512Mhz .... hit the Tx and ... no dice.
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> ok ... i figure ill go still lower in value that i have on hand 330
> ohm ... still no 512Mhz , so i figure ill pull the 330 out and take
> some more time looking for my other SMD parts bag.
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> I figure ok, i can live with not much above 70cm for now .... so i
> check 80M ... no power, then 40 and the 10m ... nothin.
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> pull out the 330 ohm and root around for a while untill i find the bag
> with my 2nd stash of SMD resistors. Get the 470 ohm installed across
> L1 and check 450Mhz ... its ok .... still no 512Mhz and hf is split
> for working. 40M works but nothin on 75M ...
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> I figure its late and ill post so far what i have done .... and maybe
> some one will respond that has gone in front of me.
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> would like 708.5Mhz and 160M .... but right now im hopeing that 160M
> to 70cm is possible with the right selection of parts ...
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> Perhaps leave the 560uH but replace the 100nH with a 3.3uH like is
> listed as an alternative .....
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> making for a 470 ohm resistor in parallel with a (560uH in series with
> a 3.3uH) ....
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> what sounds like a corse of action to you Dave? ---- i do kinda wonder
> if the hmc482 was damaged when U4 and U7 quit at about the same time
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>>> This is an older message ...
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>>> Did you go to the limit of which the Si570 grade A could do ?
>>>
>>> 708.5Mhz ?
>>>
>>
>> --
>> Mike KC7NOA
>
> --
> Mike KC7NOA
>

--
Mike KC7NOA

2012. Re: [UHFSDR] Re: The Oscillating PA

Yahoo group: UHFSDR
Date: 2015-07-21 19:56:03 UTC
From: Dave
Topic: 810 Message: 2012

Mike:
I don't have any resistor across L1. I have 3.3uH in series with 560 nH. I did see a UHF oscillation, on U5, but only during receive. I think that was very early before R1 and R2. Putting a 100 ohm resister across the output tamed the oscillation(apparently it didn't like operating with no load).
The highest frequency I have operated the UHFSDR(receive only) is UHF TV channel 59. Didn't have test equipment to check at a higher freq. at the time. The 560nH by itself caused low output below 10 MHz, but not zero.

Dave - WB6DHW
<http://wb6dhw.com>

On 7/21/2015 12:02 AM, Mike Patriot121@... [UHFSDR] wrote:
>
> Ok ...
>
> Well im a bit confused at teh moment ...
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> I should of tested hf and 70cm for each change ....
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>>> Did you go to the limit of which the Si570 grade A could do ?
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>>> 708.5Mhz ?
>>>
>>
>> --
>> Mike KC7NOA
>
> --
> Mike KC7NOA
>

2013. Re: [UHFSDR] Re: The Oscillating PA

Yahoo group: UHFSDR
Date: 2015-07-21 20:25:59 UTC
From: Mike
Topic: 810 Message: 2013

Im using a Uniden sport turbo scanner -- its only FM .... it does not
cover from 513Mhz &up in the same segments that the UHFSDR should do ....

If i tune the UHFSDR and the scanner to the same frequency ... the
scanner will pick up the leakage of the Rx .... Si570 is working ok

If i tune the UHFSDR up or down 10Khz, its far enough away that the
scanner will not "hear" the leakage on Rx ....

If i Key the SDR software tuned to the same freq as the scanner is tuned
to and i hear my self -- i figure its not oscillating out of controll

but if its just hash that breaks the squelch of the turbo scanner then i
figure that U5 is oscillating out of control ....

Do you think the next best thing to try to use is a 3.3uH in series with
a 100nH and place a 100ohm resistor (330 i do have) on the output of U5
or after the blocking cap C16. Using test point 5 to ground looks like a
good spot ... use the corner stud of the RF connector for ground connection.

On 07/21/2015 12:56 PM, Dave dave@... [UHFSDR] wrote:
>
> Mike:
> I don't have any resistor across L1. I have 3.3uH in series with
> 560 nH. I did see a UHF oscillation, on U5, but only during receive.
> I think that was very early before R1 and R2. Putting a 100 ohm
> resister across the output tamed the oscillation(apparently it didn't
> like operating with no load).
> The highest frequency I have operated the UHFSDR(receive only) is UHF
> TV channel 59. Didn't have test equipment to check at a higher freq.
> at the time. The 560nH by itself caused low output below 10 MHz, but
> not zero.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 7/21/2015 12:02 AM, Mike Patriot121@... [UHFSDR] wrote:
>>
>> Ok ...
>>
>> Well im a bit confused at teh moment ...
>>
>> I should of tested hf and 70cm for each change ....
>>
>> at first i couldn't find a 470 ohm resistor ... so i started with a
>> 1K and figured if i didn't see a change that i could drop another on

>> (1K / 2 = 500 ohm)
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>> Didn't see a change on 70cm Tx oscillation so i went on to adding
>> another 1k .... of corse now im wishing after all is done for the
>> nite that i had tested hf before moving on
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>> with 500ohm across L1, 70cm seemed to tame down and not throw trash
>> .... went to the highest area of my scanner could go that the UHFSDR
>> matched ... 512Mhz .... hit the Tx and ... no dice.
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>> ok ... i figure ill go still lower in value that i have on hand 330
>> ohm ... still no 512Mhz , so i figure ill pull the 330 out and take
>> some more time looking for my other SMD parts bag.
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>> I figure ok, i can live with not much above 70cm for now .... so i
>> check 80M ... no power, then 40 and the 10m ... nothin.
>>
>> pull out the 330 ohm and root around for a while untill i find the
>> bag with my 2nd stash of SMD resistors. Get the 470 ohm installed
>> across L1 and check 450Mhz ... its ok .... still no 512Mhz and hf is
>> split for working. 40M works but nothin on 75M ...
>>
>> I figure its late and ill post so far what i have done .... and maybe
>> some one will respond that has gone in front of me.
>>
>> what does it take to get the MHC482 to operate higher in freq i
>> would like 708.5Mhz and 160M .... but right now im hopeing that 160M
>> to 70cm is possible with the right selection of parts ...
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>> Perhaps leave the 560uH but replace the 100nH with a 3.3uH like is
>> listed as an alternative .....
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>> making for a 470 ohm resistor in parallel with a (560uH in series
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>> same time ... hard to remember ..
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>>> sure i can get that done and see if my oscillation durring Tx goes
>>> away ....
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>>> Kinda wish i had that 3.3uH inductor ... lol
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>>> On 07/20/2015 06:20 PM, Patriot121@... [UHFSDR] wrote:

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>>>> This is an older message ...
>>>>
>>>> I would like to know what frequencies did you test this at?
>>>>
>>>> Did you go to the limit of which the Si570 grade A could do ?
>>>>
>>>> 708.5Mhz ?
>>>>
>>>
>>> --
>>> Mike KC7NOA
>>
>> --
>> Mike KC7NOA
>
>

--
Mike KC7NOA

2014. Re: [UHFSDR] Re: The Oscillating PA

Yahoo group: UHFSDR
Date: 2015-07-21 23:42:32 UTC
From: Dave
Topic: 810 Message: 2014

Mike:
That sounds right with the scanner. I noticed the oscillation originally because it wiped out a UHF TV translater I was watching on a nearby TV. The 560nH has too low of impedance below 10 MHz and the 3.3uH at 500 MHz is well above its self resonance and likely looks like a capacitor. That's why the two together. I put the 100 ohm from the mmic output to ground. I think taming mmics is magic.

Dave - WB6DHW
<http://wb6dhw.com>

On 7/21/2015 1:25 PM, Mike Patriot121@... [UHFSDR] wrote:
>
> Im using a Uniden sport turbo scanner -- its only FM .... it does not
> cover from 513Mhz &up in the same segments that the UHFSDR should do ....
>
> If i tune the UHFSDR and the scanner to the same frequency ... the
> scanner will pick up the leakage of the Rx .... Si570 is working ok
>
> If i tune the UHFSDR up or down 10Khz, its far enough away that the
> scanner will not "hear" the leakage on Rx ....
>
> If i Key the SDR software tuned to the same freq as the scanner is
> tuned to and i hear my self -- i figure its not oscillating out of
> controll
>
> but if its just hash that breaks the squelch of the turbo scanner then
> i figure that U5 is oscillating out of control ....
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> Do you think the next best thing to try to use is a 3.3uH in series
> with a 100nH and place a 100ohm resistor (330 i do have) on the output
> of U5 or after the blocking cap C16. Using test point 5 to ground
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> On 07/21/2015 12:56 PM, Dave dave@... [UHFSDR] wrote:
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>> 100 ohm resister across the output tamed the oscillation(apparently
>> it didn't like operating with no load).
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>> TV channel 59. Didn't have test equipment to check at a higher freq.
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> Mike KC7NOA
>

2015. Re: [UHFSDR] Re: The Oscillating PA

Yahoo group: UHFSDR
Date: 2015-07-22 00:20:37 UTC
From: Mike
Topic: 810 Message: 2015

looks like success ....

Placed a huge (compared to the 100nH) 3.3uH in series with a 100nH for L1. Then used a 470ohm from TP5 to the corner of J4 (the one closest to U3). Had to bridge the gap from the 470 ohm to ground with a piece of solid wire ...

Tested on 75M and 2M, 1.25M and 70cm .... all A ok .....

Also checked 512Mhz ... as that's as high as my scanner and UHFSDR have in common still no sign of Trash from the Tx.

I probably should take a picture and post it to the forum's pics ....

On 07/21/2015 04:42 PM, Dave dave@... [UHFSDR] wrote:
>
> Mike:
> That sounds right with the scanner. I noticed the oscillation
> originally because it wiped out a UHF TV translater I was watching on
> a nearby TV. The 560nH has too low of impedance below 10 MHz and the
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>>>> Mike KC7NOA
>>>
>>
>> --
>> Mike KC7NOA
>
>

--
Mike KC7NOA

2016. packet radio sound modem

Yahoo group: UHFSDR
Date: 2015-07-22 04:37:24 UTC
From: Patriot121@...
Topic: 2016 Message: 2016

Any one know of a pack radio sound modem under linux/ubuntu ?

Iv used psk31 and a few other sound digital modes ... but now that my UHFSDR is working on VHF id like to get packet radio working with it.

2017. Re: [UHFSDR] packet radio sound modem

Yahoo group: UHFSDR
Date: 2015-07-22 06:11:17 UTC
From: Mike
Topic: 2016 Message: 2017

well .. i think i found a solution .. not sure yet ... it worked on my
intell machine .. who knows on my SDR

https://wiki.hacdc.org/index.php/Notes_on_Soundmodem

On 07/21/2015 09:37 PM, Patriot121@... [UHFSDR] wrote:
>
> Any one know of a pack radio sound modem under linux/ubuntu ?
>
> Iv used psk31 and a few other sound digital modes ... but now that my
> UHFSDR is working on VHF id like to get packet radio working with it.
>
>
>

--
Mike KC7NOA

2018. Re: [UHFSDR] packet radio sound modem

Yahoo group: UHFSDR
Date: 2015-07-22 17:34:50 UTC
From: Bill Vodall
Topic: 2016 Message: 2018

```
>
> Any one know of a pack radio sound modem under linux/ubuntu ?

Do a search on Dire Wolf Packet
```

2019. Re: [UHFSDR] packet radio sound modem

Yahoo group: UHFSDR
Date: 2015-07-22 19:47:24 UTC
From: Mike
Topic: 2016 Message: 2019

does it have a gui ... terminal?

or is it just a TNC emulation program ?

On 07/22/2015 10:34 AM, Bill Vodall wa7nwp@... [UHFSDR] wrote:
>
> >
> > Any one know of a pack radio sound modem under linux/ubuntu ?
>
> Do a search on Dire Wolf Packet
>
>

--
Mike KC7NOA

2020. Re: [UHFSDR] packet radio sound modem

Yahoo group: UHFSDR
Date: 2015-07-22 20:02:34 UTC
From: Bill Vodall
Topic: 2016 Message: 2020

>>> Any one know of a pack radio sound modem under linux/ubuntu ?
>
>> Do a search on Dire Wolf Packet

https://home.comcast.net/~wb2osz/site/

> does it have a gui ... terminal?
>
> or is it just a TNC emulation program ?

Neither - it's a sound card modem. Audio data packets in - computer data packets out. You would use it with the Linux AX25 tools such as axlisten or call to do basic packet stuff. Beyond that you can do everything for BBS's, APRS to even TCP on ax25.

UZ7HO soundcard modem has a nice GUI but it's a windows program.

73
Bill

2021. Re: [UHFSDR] packet radio sound modem

Yahoo group: UHFSDR
Date: 2015-07-22 20:37:58 UTC
From: Mike
Topic: 2016 Message: 2021

Yea .. and Wine does not work on Arm systems yet ....

thats why im looking for a gui for packet ... i have soundmodem working
and direwolf too ....

Im not interested in ARPS .... just want to use some thing similar to
the old baycom stuff ....

On 07/22/2015 01:02 PM, Bill Vodall wa7nwp@gmail.com [UHFSDR] wrote:
>
> >>> Any one know of a pack radio sound modem under linux/ubuntu ?
> >
> >> Do a search on Dire Wolf Packet
>
> https://home.comcast.net/~wb2osz/site/
>
> > does it have a gui ... terminal?
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> Neither - it's a sound card modem. Audio data packets in - computer
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> everything for BBS's, APRS to even TCP on ax25.
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> 73
> Bill
>
>

--
Mike KC7NOA

2022. Re: [UHFSDR] packet radio sound modem

Yahoo group: UHFSDR
Date: 2015-07-22 20:59:29 UTC
From: Bill Vodall
Topic: 2016 Message: 2022

Look for LinPac at sourceforge - if it ever comes back. Here's a start:
http://dh5ym.hopto.org/wiki/?p=894

On Wed, Jul 22, 2015 at 1:37 PM, Mike Patriot121@... [UHFSDR] <
UHFSDR@yahoogroups.com> wrote:

>
>
> Yea .. and Wine does not work on Arm systems yet ....
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>
> 73
> Bill
>
>
> --
> Mike KC7NOA
>

>
>

2023. Re: [UHFSDR] packet radio sound modem

Yahoo group: UHFSDR
Date: 2015-07-22 21:57:52 UTC
From: Mike
Topic: 2016 Message: 2023

Oh great ... the sourceforge crash thats seriously wide spread ....

Wonder how long this will be gone .... what happened etc ...

On 07/22/2015 01:59 PM, Bill Vodall wa7nwp@... [UHFSDR] wrote:
>
> Look for LinPac at sourceforge - if it ever comes back. Here's a
> start: http://dh5ym.hopto.org/wiki/?p=894
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> On Wed, Jul 22, 2015 at 1:37 PM, Mike Patriot121@msn.com
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>> everything for BBS's, APRS to even TCP on ax25.
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>> 73
>> Bill

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> Mike KC7NOA
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>
>

--
Mike KC7NOA

2024. Re: [UHFSDR] packet radio sound modem

Yahoo group: UHFSDR
Date: 2015-07-22 21:59:08 UTC
From: Mike
Topic: 2016 Message: 2024

Oh .. some sourceforge is working !!!!

http://sourceforge.net/projects/linpac/files/latest/download

On 07/22/2015 01:59 PM, Bill Vodall wa7nwp@gmail.com [UHFSDR] wrote:
>
> Look for LinPac at sourceforge - if it ever comes back. Here's a
> start: http://dh5ym.hopto.org/wiki/?p=894
>
> On Wed, Jul 22, 2015 at 1:37 PM, Mike Patriot121@...
> <mailto:Patriot121@msn.com> [UHFSDR] <UHFSDR@yahoogroups.com
> <mailto:UHFSDR@yahoogroups.com>> wrote:
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>> >>> Any one know of a pack radio sound modem under linux/ubuntu ?
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>> https://home.comcast.net/~wb2osz/site/
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> Mike KC7NOA
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Mike KC7NOA

2025. VHF amp

Yahoo group: UHFSDR
Date: 2015-08-06 21:39:07 UTC
From: Mike
Topic: 2025 Message: 2025

IF any one is following me on this ...

Im about to test this RA30 amp control board ebay 301524834961 with a RA60 ....

Im not sure how much power is needed by the RF detector and id rather remotely activate Tx condition ....

I soldered some brass nuts for 4-40 bolts onto the pcb .... (and drilled out the thread so that my 4-40 would pass through- before hand !!!)

the PCB didn't look like to could sit flat on the heatsink. My nuts are abit too thick and i had to bend the RA60 pins up some .... didn't sound like any broke from the board .... hope they never do ...

The RF detector looks like a generic type .... im just not sure if pulling the base of the relay control transistor high (3V?) will activate or grounding it.

Guess ill soon know.

--
Mike KC7NOA

2026. Re: [UHFSDR] VHF amp

Yahoo group: UHFSDR
Date: 2015-08-06 23:43:07 UTC
From: Mike
Topic: 2025 Message: 2026

well this is as far as iv goten so far ...

pcb and RA60 mounted .... low pass filter is 1/2 mounted ....

Needs power leads and to find the switches .....

Good N'uff 350HD CB amp repurposed to the VHF band ....

https://groups.yahoo.com/neo/groups/UHFSDR/photos/albums/2143879841/lightbox/1233986730?orderBy=ordinal&sortOrder=asc&photoFilter=ALL#

On 08/06/2015 02:39 PM, Mike Patriot121@... [UHFSDR] wrote:
>
> IF any one is following me on this ...
>
> Im about to test this RA30 amp control board ebay 301524834961 with a
> RA60 ....
>
> Im not sure how much power is needed by the RF detector and id rather
> remotely activate Tx condition ....
>
> I soldered some brass nuts for 4-40 bolts onto the pcb .... (and drilled
> out the thread so that my 4-40 would pass through- before hand !!!)
>
> the PCB didn't look like to could sit flat on the heatsink. My nuts are
> abit too thick and i had to bend the RA60 pins up some .... didn't sound
> like any broke from the board .... hope they never do ...
>
> The RF detector looks like a generic type .... im just not sure if
> pulling the base of the relay control transistor high (3V?) will
> activate or grounding it.
>
> Guess ill soon know.
>
> --
> Mike KC7NOA
>
>

--
Mike KC7NOA

2027. Re: [UHFSDR] VHF amp

Yahoo group: UHFSDR
Date: 2015-08-10 00:07:00 UTC
From: Patriot121@...
Topic: 2025 Message: 2027

Did some testing today ...

UHFSDR https://groups.yahoo.com/neo/groups/UHFSDR/photos/albums/2143879841/lightbox/236796753?orderBy=ordinal&sortOrder=asc&photoFilter=ALL#

https://groups.yahoo.com/neo/groups/UHFSDR/photos/albums/2143879841/lightbox/236796753?orderBy=ordinal&sortOrder=asc&photoFilter=ALL#

UHFSDR https://groups.yahoo.com/neo/groups/UHFSDR/photos/albums/2143879841/lightbox/236796753?orderBy=ordinal&sortOrder=asc&photoFilter=ALL# The UHFSDR 1.75 to 700 MHz transceiver by WB6DHW

View on groups.yahoo.com https://groups.yahoo.com/neo/groups/UHFSDR/photos/albums/2143879841/lightbox/236796753?orderBy=ordinal&sortOrder=asc&photoFilter=ALL#
Preview by Yahoo

Need to make a few modes ... the Rf detector takes way too much power ....

AND get this ... the Bias is not controlled by the Rf detector .... if you set the bias to draw 5A through the RA60 ... your buringing power all the time .... not good.

Since im going to control the Tx/Tx switching from my SDR ... guess a addition of another relay to switch on/off the bias is going to be in order ....

Thats the next project for the amp as of this writing ...

Oh output is now 40W with bias at 4.45V

2028. Where to start

Yahoo group: UHFSDR
Date: 2015-08-10 16:38:34 UTC
From: themadmongo@...
Topic: 2028 Message: 2028

Hello,
I am interested in trying to build the uhfsdr. I am kinda at a loss on what I should order to start with.

Can someone please point me in the right direction?

Thanks,
John

2029. Re: [UHFSDR] Where to start

Yahoo group: UHFSDR
Date: 2015-08-10 17:07:03 UTC
From: Dave
Topic: 2028 Message: 2029

John:
Order the UHFSDR PCB and the UHFSDR minikit from my for-sale page.
Download the Digikey parts list and upload to Digikey(if in the USA) or
the Farnell spreadsheet if in Europe to order the remainder of the parts
except for the Si570. The Si570 can be ordered from the Silabs
website. Get the LVPECL output option. If you wish to control the
UHFSDR by USB order the USB2IC board.

Dave - WB6DHW
<http://wb6dhw.com>

On 8/10/2015 9:38 AM, themadmongo@... [UHFSDR] wrote:
>
> Hello,
> I am interested in trying to build the uhfsdr. I am kinda at a loss on
> what I should order to start with.
>
> Can someone please point me in the right direction?
>
> Thanks,
> John
>
>
>

2030. Re: [UHFSDR] Where to start

Yahoo group: UHFSDR
Date: 2015-08-10 18:07:32 UTC
From: Mike
Topic: 2028 Message: 2030

Welcome !!!!

I ask what bands do you plan on using the UHFSDR on ??

So far iv used mine on HF VHF, but not UHF yet ....

There are a few mods to consider for L1 and R3 ... replacements
depending on where you wish to operate or try to cover full Si570 range.

Im still trying to use FULL coverage ... and my last mod has left me
with not enough power for 10M .... i might change L1 (has been replaced
with a 2diferent value chokes) again ... most likely ... lol

On 08/10/2015 09:38 AM, themadmongo@... [UHFSDR] wrote:
>
> Hello,
> I am interested in trying to build the uhfsdr. I am kinda at a loss on
> what I should order to start with.
>
> Can someone please point me in the right direction?
>
> Thanks,
> John
>
>
>

--
Mike KC7NOA

2031. Re: [UHFSDR] VHF amp

Yahoo group: UHFSDR
Date: 2015-08-10 23:17:44 UTC
From: Patriot121@...
Topic: 2025 Message: 2031

So the addition of a really old 12V spdt was added .... it was so old that when i searched for the pinout .. all i could find was "discontinued" -- turns out it has a NC AND a NO pin set ....

Looks rough but its working ....

Ran the voltage up to 16V and got 55W out ... so i figure one of two things are going on .....
Im not giving enough drive (most likely) to reach 80W or the low pass filter is heating ...

But either way ... i left the bias at 4.45V it gives me just under 40W out and SSB seems to be about the same ... i need to find the case to this old CB linear -- im getting RF feedback on SSB now ....

UHFSDR https://groups.yahoo.com/neo/groups/UHFSDR/photos/albums/2143879841/lightbox/236796753?orderBy=ordinal&sortOrder=asc&photoFilter=ALL#

https://groups.yahoo.com/neo/groups/UHFSDR/photos/albums/2143879841/lightbox/236796753?orderBy=ordinal&sortOrder=asc&photoFilter=ALL#

UHFSDR https://groups.yahoo.com/neo/groups/UHFSDR/photos/albums/2143879841/lightbox/236796753?orderBy=ordinal&sortOrder=asc&photoFilter=ALL# The UHFSDR 1.75 to 700 MHz transceiver by WB6DHW

View on groups.yahoo.com https://groups.yahoo.com/neo/groups/UHFSDR/photos/albums/2143879841/lightbox/236796753?orderBy=ordinal&sortOrder=asc&photoFilter=ALL#
Preview by Yahoo

2032. FIRES

Yahoo group: UHFSDR
Date: 2015-08-17 06:25:01 UTC
From: Mike
Topic: 2032 Message: 2032

Well just heard from Ken , that Dave is not home due to the fires down that way ....

Hope things stay good in that region ....

Had a nice chat with KT7KEN over then repeaters .. me on 146.38 and ken on the 145.19 .....

--
Mike KC7NOA

2033. RE: [UHFSDR] FIRES

Yahoo group: UHFSDR
Date: 2015-08-17 23:48:24 UTC
From: <dave@...>
Topic: 2032 Message: 2033

Mike:
? We are OK but have been at the shelter in Kooskia since Friday night. ?Was able to go to the house and pick up some more items. ?Yesterday afternoon a lot of water drops helped a lot. ?They were afraid the fire would crest the ridge about 1/2 mile from my house. ?My neighbor who is a rancher with 690 acres and heavy equipment plus the firefighters bulldozed fire breaks and set some backfires. According to todays map, the fire has retreated a little. ?Power has been off at the house since Friday night with no estimate for its return. ?Too many poles down and transformers burned. My XYL(KF7LGL) heard on the scanner(actualy an IC-208H in the car) that a reporter was being taken up to our ridge to view the burnout. ?But, don't know from what station.
? Just heard the fire as reached the ridge and trees are on fire.

Dave - WB6DHW
http//wb6dhw.com (http://wb6dhw.com)>

-------- Original Message --------
Subject: [UHFSDR] FIRES
From: "Mike Patriot121@... [UHFSDR]" <UHFSDR@yahoogroups.com>
Date: Sun, August 16, 2015 11:25 pm
To: UHFSDR@yahoogroups.com

?;

Well just heard from Ken , that Dave is not home due to the fires down
that way ....

Hope things stay good in that region ....

Had a nice chat with KT7KEN over then repeaters .. me on 146.38 and ken
on the 145.19 .....

--
Mike KC7NOA

2034. Re: [UHFSDR] FIRES

Yahoo group: UHFSDR
Date: 2015-08-18 00:21:37 UTC
From: Mike
Topic: 2032 Message: 2034

Have you heard from KT7KEN .. he was still at his home when i last
talked to him .. he said fire was 1/2 mile from his place too ...

On 08/17/2015 04:48 PM, dave@... [UHFSDR] wrote:
>
> Mike:
> We are OK but have been at the shelter in Kooskia since Friday
> night. Was able to go to the house and pick up some more items.
> Yesterday afternoon a lot of water drops helped a lot. They were
> afraid the fire would crest the ridge about 1/2 mile from my house.
> My neighbor who is a rancher with 690 acres and heavy equipment plus
> the firefighters bulldozed fire breaks and set some backfires.
> According to todays map, the fire has retreated a little. Power has
> been off at the house since Friday night with no estimate for its
> return. Too many poles down and transformers burned. My XYL(KF7LGL)
> heard on the scanner(actualy an IC-208H in the car) that a reporter
> was being taken up to our ridge to view the burnout. But, don't know
> from what station.
> Just heard the fire as reached the ridge and trees are on fire.
>
> Dave - WB6DHW
> http//wb6dhw.com <http://wb6dhw.com>>
>
>
> -------- Original Message --------
> Subject: [UHFSDR] FIRES
> From: "Mike Patriot121@... <mailto:Patriot121@...>
> [UHFSDR]" <UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>>
> Date: Sun, August 16, 2015 11:25 pm
> To: UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
>
> Well just heard from Ken , that Dave is not home due to the fires
> down
> that way ....
>
> Hope things stay good in that region ....
>
> Had a nice chat with KT7KEN over then repeaters .. me on 146.38
> and ken
> on the 145.19 .....
>
> --
> Mike KC7NOA
>
>

--
Mike KC7NOA

2035. Re: [UHFSDR] FIRES

Yahoo group: UHFSDR
Date: 2015-08-18 00:32:14 UTC
From: Jim Sanford
Topic: 2032 Message: 2035

Dave:
All the best . .. .thinking of you!
Jim
wb4gcs@...

On 8/17/2015 7:48 PM, dave@... [UHFSDR] wrote:
>
> Mike:
> We are OK but have been at the shelter in Kooskia since Friday
> night. Was able to go to the house and pick up some more items.
> Yesterday afternoon a lot of water drops helped a lot. They were
> afraid the fire would crest the ridge about 1/2 mile from my house.
> My neighbor who is a rancher with 690 acres and heavy equipment plus
> the firefighters bulldozed fire breaks and set some backfires.
> According to todays map, the fire has retreated a little. Power has
> been off at the house since Friday night with no estimate for its
> return. Too many poles down and transformers burned. My XYL(KF7LGL)
> heard on the scanner(actualy an IC-208H in the car) that a reporter
> was being taken up to our ridge to view the burnout. But, don't know
> from what station.
> Just heard the fire as reached the ridge and trees are on fire.
>
> Dave - WB6DHW
> http//wb6dhw.com <http://wb6dhw.com>>
>
>
> -------- Original Message --------
> Subject: [UHFSDR] FIRES
> From: "Mike Patriot121@... <mailto:Patriot121@...>
> [UHFSDR]" <UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>>
> Date: Sun, August 16, 2015 11:25 pm
> To: UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
>
> Well just heard from Ken , that Dave is not home due to the fires
> down
> that way ....
>
> Hope things stay good in that region ....
>
> Had a nice chat with KT7KEN over then repeaters .. me on 146.38
> and ken
> on the 145.19 .....
>
> --
> Mike KC7NOA

>
>

This email has been checked for viruses by Avast antivirus software.
https://www.avast.com/antivirus

2036. RE: [UHFSDR] FIRES

Yahoo group: UHFSDR
Date: 2015-08-18 03:14:33 UTC
From: <dave@...>
Topic: 2032 Message: 2036

Mike:
? Just talked to Ken on our club repeater which is in my back yard and solar powered. ?Ken is still at home and OK but 4 fires are 1/2 mile from him in different direction.

Dave - WB6DHW
<http://WB6DHW.COM>

-------- Original Message --------
Subject: Re: [UHFSDR] FIRES
From: "Mike Patriot121@... [UHFSDR]" <UHFSDR@yahoogroups.com>
Date: Mon, August 17, 2015 5:21 pm
To: UHFSDR@yahoogroups.com

?

Have you heard from KT7KEN .. he was still at his home when i last talked to him .. he said fire was 1/2 mile from his place too ...

On 08/17/2015 04:48 PM, dave@... [UHFSDR] wrote:

?

Mike:

? We are OK but have been at the shelter in Kooskia since Friday night. ?Was able to go to the house and pick up some more items. ?Yesterday afternoon a lot of water drops helped a lot. ?They were afraid the fire would crest the ridge about 1/2 mile from my house. ?My neighbor who is a rancher with 690 acres and heavy equipment plus the firefighters bulldozed fire breaks and set some backfires. ?According to todays map, the fire has retreated a little. ?Power has been off at the house since Friday night with no estimate for its return. ?Too many poles down and transformers burned. My XYL(KF7LGL) heard on the scanner(actualy an IC-208H in the car) that a reporter was being taken up to our ridge to view the burnout. ?But, don't know from what station.

? Just heard the fire as reached the ridge and trees are on fire.

Dave - WB6DHW

http//wb6dhw.com (http://wb6dhw.com)>

-------- Original Message --------
Subject: [UHFSDR] FIRES
From: "Mike Patriot121@... [UHFSDR]" <UHFSDR@yahoogroups.com>
Date: Sun, August 16, 2015 11:25 pm
To: UHFSDR@yahoogroups.com

?

Well just heard from Ken , that Dave is not home due to the fires down that way ....

Hope things stay good in that region ....

Had a nice chat with KT7KEN over then repeaters .. me on 146.38 and ken on the 145.19 .....

--
Mike KC7NOA

-- Mike KC7NOA

2037. UHFSDR with wsjtx and fldigi then on 2M local repeater

Yahoo group: UHFSDR
Date: 2015-08-18 15:36:58 UTC
From: Mike
Topic: 2037 Message: 2037

Made a video running a UHFSDR ... with Ubuntu/Quisk

trying out wsjtx with issues on arm ....

then fldigi ...

then a local 2M repeater .... KBARA

https://youtu.be/2XmLsBghK5g

the 2M part is around 13:16 or so ....

--
Mike KC7NOA

2038. inductors

Yahoo group: UHFSDR
Date: 2015-08-27 15:27:52 UTC
From: Mike
Topic: 2038 Message: 2038

Hey .. is this "Broadband Conical Inductors" from coil craft something new .. or been around for a while ?

Just got an add from them and was wondering if it would help with output on the UHFSDR .... or is just hype.

--
Mike KC7NOA

2039. coil craft chokes

Yahoo group: UHFSDR
Date: 2015-08-28 03:15:17 UTC
From: Mike
Topic: 2039 Message: 2039

Looks like coil craft has seen fit to send me samples of these conical chokes ... i plan on testing them in the output of the UHFSDR to see if i can get HF, VHF and UHF output without all the series coils.*

*BCR-221JLB
4310LC-132KEB*

* Mike KC7NOA

2040. Re: [UHFSDR] coil craft chokes

Yahoo group: UHFSDR
Date: 2015-08-29 22:15:21 UTC
From: Charles Nolin
Topic: 2039 Message: 2040

Hi Mike,I have two UHFSDR radio's I built and would like to know how you make out getting there to your end results. I will try to follow along, and thank you for posting your project here.Chuck WA6LTV/4

On Thursday, August 27, 2015 11:15 PM, "Mike Patriot121@... [UHFSDR]" <UHFSDR@yahoogroups.com> wrote:

  Looks like coil craft has seen fit to send me samples of these conical chokes ... i plan on testing them in the output of the UHFSDR to see if i can get HF, VHF and UHF output without all the series coils.

BCR-221JLB
4310LC-132KEB

 Mike KC7NOA

2041. Re: [UHFSDR] coil craft chokes

Yahoo group: UHFSDR
Date: 2015-08-29 23:10:58 UTC
From: Mike
Topic: 2039 Message: 2041

Chuck ... do you have the 1.4ghz Si570?

right now i can do most HF (6M is unknown) 2M ... verified power on
220Mhz and 440Mhz (up to 512Mhz) as of this writing ...

I built a 2M amp and hope to have parts for 1.25M and 70cm ....

This is with 3 different choke values in series for output ... and the
5054 front end change ...

On 08/29/2015 03:15 PM, Charles Nolin wa6ltv@... [UHFSDR] wrote:
> Hi Mike,
> I have two UHFSDR radio's I built and would like to know how you make
> out getting there to your end results. I will try to follow along,
> and thank you for posting your project here.
> Chuck
> WA6LTV/4
>
>
>
> On Thursday, August 27, 2015 11:15 PM, "Mike Patriot121@...
> [UHFSDR]" <UHFSDR@yahoogroups.com> wrote:
>
>
> Looks like coil craft has seen fit to send me samples of these conical
> chokes ... i plan on testing them in the output of the UHFSDR to see
> if i can get HF, VHF and UHF output without all the series coils.*
>
> *BCR-221JLB
> 4310LC-132KEB*
>
>
>
> * Mike KC7NOA
>
>
>

--
Mike KC7NOA

2042. (no subject)

Yahoo group: UHFSDR
Date: 2015-09-05 00:34:44 UTC
From: w9amr
Topic: 2042 Message: 2042
Attachments: 1 described; binary payloads are missing from this source WARC

Sent on a Sprint Samsung Galaxy Note® 3

2043. (no subject)

Yahoo group: UHFSDR
Date: 2015-09-05 00:35:10 UTC
From: w9amr
Topic: 2043 Message: 2043
Attachments: 1 described; binary payloads are missing from this source WARC

Sent on a Sprint Samsung Galaxy Note® 3

2044. (no subject)

Yahoo group: UHFSDR
Date: 2015-09-05 01:01:02 UTC
From: w9amr
Topic: 2044 Message: 2044
Attachments: 1 described; binary payloads are missing from this source WARC

Sent on a Sprint Samsung Galaxy Note® 3

2045. (no subject)

Yahoo group: UHFSDR
Date: 2015-09-05 01:01:34 UTC
From: w9amr
Topic: 2045 Message: 2045
Attachments: 1 described; binary payloads are missing from this source WARC

Sent on a Sprint Samsung Galaxy Note® 3

2046. (no subject)

Yahoo group: UHFSDR
Date: 2015-09-05 01:06:08 UTC
From: w9amr
Topic: 2046 Message: 2046
Attachments: 1 described; binary payloads are missing from this source WARC

Sent on a Sprint Samsung Galaxy Note® 3

2047. (no subject)

Yahoo group: UHFSDR
Date: 2015-09-05 01:05:34 UTC
From: w9amr
Topic: 2047 Message: 2047
Attachments: 1 described; binary payloads are missing from this source WARC

Sent on a Sprint Samsung Galaxy Note® 3

2048. (no subject)

Yahoo group: UHFSDR
Date: 2015-09-05 01:18:45 UTC
From: w9amr
Topic: 2048 Message: 2048
Attachments: 1 described; binary payloads are missing from this source WARC

Sent on a Sprint Samsung Galaxy Note® 3

2049. Spectrum plot

Yahoo group: UHFSDR
Date: 2015-09-07 20:36:06 UTC
From: Patriot121@...
Topic: 2049 Message: 2049

Didnt some one post a spectrum plot of the output of the UHFSDR ... i cant find it now !!!!!

Where did it go ?

2050. Re: [UHFSDR] coil craft chokes

Yahoo group: UHFSDR
Date: 2015-09-08 18:15:08 UTC
From: Charles Nolin
Topic: 2039 Message: 2050

Hello Mike,Sorry I am so late to get back to you, but I didn't see the reply. Yes I made both of my UHFSDR radio's with the 1.4gig si570 chip. I haven't put them in enclosures, but have used them with differentSDR radio setups. Been waiting to use them with something special.Been busy building other radios also.Thanks,Chuck WA6LTV4

On Saturday, August 29, 2015 7:11 PM, "Mike Patriot121@... [UHFSDR]" <UHFSDR@yahoogroups.com> wrote:

  Chuck ... do you have the 1.4ghz Si570?

right now i can do most HF (6M is unknown) 2M ... verified power on 220Mhz and 440Mhz (up to 512Mhz) as of this writing ...

I built a 2M amp and hope to have parts for 1.25M and 70cm ....

This is with 3 different choke values in series for output ... and the 5054 front end change ...

On 08/29/2015 03:15 PM, Charles Nolin wa6ltv@... [UHFSDR] wrote:

  Hi Mike, I have two UHFSDR radio's I built and would like to know how you make out getting there to your end results. I will try to follow along, and thank you for posting your project here. Chuck WA6LTV/4

On Thursday, August 27, 2015 11:15 PM, "Mike Patriot121@... [UHFSDR]" <UHFSDR@yahoogroups.com> wrote:

  Looks like coil craft has seen fit to send me samples of these conical chokes ... i plan on testing them in the output of the UHFSDR to see if i can get HF, VHF and UHF output without all the series coils.

BCR-221JLB
4310LC-132KEB

 Mike KC7NOA

--
Mike KC7NOA

2051. RE: [UHFSDR] coil craft chokes

Yahoo group: UHFSDR
Date: 2015-09-08 19:55:36 UTC
From: MIKE DURKIN
Topic: 2039 Message: 2051

Something special? do tell .... the cats tail is out .. the rest might as well come out too .... lol

The guys at HobbyPCB are working on a tri-band amp @ 10W .... 2m,1.25 and 70cm ... though its for the RS-UV3 FM radio it might work fine for a UHFSDR ....

To: UHFSDR@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Tue, 8 Sep 2015 18:15:08 +0000
Subject: Re: [UHFSDR] coil craft chokes

Hello Mike,Sorry I am so late to get back to you, but I didn't see the reply. Yes I made both of my UHFSDR radio's with the 1.4gig si570 chip. I haven't put them in enclosures, but have used them with differentSDR radio setups. Been waiting to use them with something special.Been busy building other radios also.Thanks,Chuck WA6LTV4

On Saturday, August 29, 2015 7:11 PM, "Mike Patriot121@... [UHFSDR]" <UHFSDR@yahoogroups.com> wrote:

Chuck ... do you have the 1.4ghz Si570?

right now i can do most HF (6M is unknown) 2M ... verified power on 220Mhz and 440Mhz (up to 512Mhz) as of this writing ...

I built a 2M amp and hope to have parts for 1.25M and 70cm ....

This is with 3 different choke values in series for output ... and the 5054 front end change ...

On 08/29/2015 03:15 PM, Charles Nolin wa6ltv@... [UHFSDR] wrote:

Hi Mike,
I have two
UHFSDR radio's I built and would like to know how you
make out getting there to your end results. I will
try to follow along,
and thank you
for posting your project here.
Chuck

WA6LTV/4

On
Thursday, August 27, 2015 11:15 PM, "Mike
Patriot121@... [UHFSDR]"
<UHFSDR@yahoogroups.com> wrote:

Looks like coil craft has seen fit
to send me samples of these conical
chokes ... i plan on testing them in
the output of the UHFSDR to see if i
can get HF, VHF and UHF output without
all the series coils.

BCR-221JLB
4310LC-132KEB

Mike KC7NOA

--
Mike KC7NOA

2052. Re: [UHFSDR] coil craft chokes

Yahoo group: UHFSDR
Date: 2015-09-08 20:57:14 UTC
From: Charles Nolin
Topic: 2039 Message: 2052

Hello Mike,Well yea you know how it goes, I don't just need another 40 meter rig on the desk !! hi hi....Thanks for the info, will look it up.Were you in with the MOBO, and audio Widget project?ChuckWA6LTV4

On Tuesday, September 8, 2015 3:56 PM, "MIKE DURKIN Patriot121@... [UHFSDR]" <UHFSDR@yahoogroups.com> wrote:

  Something special? do tell .... the cats tail is out .. the rest might as well come out too .... lol

The guys at HobbyPCB are working on a tri-band amp @ 10W .... 2m,1.25 and 70cm ... though its for the RS-UV3 FM radio it might work fine for a UHFSDR ....

To: UHFSDR@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Tue, 8 Sep 2015 18:15:08 +0000
Subject: Re: [UHFSDR] coil craft chokes

Hello Mike,Sorry I am so late to get back to you, but I didn't see the reply. Yes I made both of my UHFSDR radio's with the 1.4gig si570 chip. I haven't put them in enclosures, but have used them with differentSDR radio setups. Been waiting to use them with something special.Been busy building other radios also.Thanks,Chuck WA6LTV4

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On 08/29/2015 03:15 PM, Charles Nolin wa6ltv@... [UHFSDR] wrote:

  Hi Mike, I have two UHFSDR radio's I built and would like to know how you make out getting there to your end results. I will try to follow along, and thank you for posting your project here. Chuck WA6LTV/4

On Thursday, August 27, 2015 11:15 PM, "Mike Patriot121@... [UHFSDR]" <UHFSDR@yahoogroups.com> wrote:

  Looks like coil craft has seen fit to send me samples of these conical chokes ... i plan on testing them in the output of the UHFSDR to see if i can get HF, VHF and UHF output without all the series coils.

BCR-221JLB
4310LC-132KEB

Mike KC7NOA

--
Mike KC7NOA

2053. Re: [UHFSDR] coil craft chokes

Yahoo group: UHFSDR
Date: 2015-09-08 21:13:54 UTC
From: Mathison Ott
Topic: 2039 Message: 2053

Im following this... alltho i dont have a uhfsdr, i did pick up a hackrf
and im looking for a filter solution and amp project to get the power
up, on uhf bands and down in hf too.

73 mathison kj6dzb
On Sep 8, 2015 1:58 PM, "Charles Nolin wa6ltv@... [UHFSDR]" <
UHFSDR@yahoogroups.com> wrote:

>
>
> Hello Mike,
> Well yea you know how it goes, I don't just need another 40 meter rig on
> the desk !! hi hi....
> Thanks for the info, will look it up.
> Were you in with the MOBO, and audio Widget project?
> Chuck
> WA6LTV4
>
>
>
> On Tuesday, September 8, 2015 3:56 PM, "MIKE DURKIN Patriot121@...
> [UHFSDR]" <UHFSDR@yahoogroups.com> wrote:
>
>
>
> Something special? do tell .... the cats tail is out .. the rest might as
> well come out too .... lol
>
> The guys at HobbyPCB are working on a tri-band amp @ 10W .... 2m,1.25 and
> 70cm ... though its for the RS-UV3 FM radio it might work fine for a UHFSDR
> ....
>
>
>
> ----------
> To: UHFSDR@yahoogroups.com
> From: UHFSDR@yahoogroups.com
> Date: Tue, 8 Sep 2015 18:15:08 +0000
> Subject: Re: [UHFSDR] coil craft chokes
>
>
>
> Hello Mike,
> Sorry I am so late to get back to you, but I didn't see the reply.
> Yes I made both of my UHFSDR radio's with the 1.4gig si570 chip. I haven't

> put them in enclosures, but have used them with different
> SDR radio setups. Been waiting to use them with something special.
> Been busy building other radios also.
> Thanks,
> Chuck
> WA6LTV4
>
>
>
> On Saturday, August 29, 2015 7:11 PM, "Mike Patriot121@... [UHFSDR]" <
> UHFSDR@yahoogroups.com> wrote:
>
>
>
> Chuck ... do you have the 1.4ghz Si570?
>
> right now i can do most HF (6M is unknown) 2M ... verified power on 220Mhz
> and 440Mhz (up to 512Mhz) as of this writing ...
>
> I built a 2M amp and hope to have parts for 1.25M and 70cm ....
>
> This is with 3 different choke values in series for output ... and the
> 5054 front end change ...
>
> On 08/29/2015 03:15 PM, Charles Nolin wa6ltv@... [UHFSDR] wrote:
>
>
> Hi Mike,
> I have two UHFSDR radio's I built and would like to know how you make out
> getting there to your end results. I will try to follow along,
> and thank you for posting your project here.
> Chuck
> WA6LTV/4
>
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> <UHFSDR@yahoogroups.com> <UHFSDR@yahoogroups.com> wrote:
>
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>
> Looks like coil craft has seen fit to send me samples of these conical
> chokes ... i plan on testing them in the output of the UHFSDR to see if i
> can get HF, VHF and UHF output without all the series coils.
>
> BCR-221JLB
> 4310LC-132KEB
>
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> Mike KC7NOA
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> Mike KC7NOA
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2054. RE: [UHFSDR] coil craft chokes

Yahoo group: UHFSDR
Date: 2015-09-08 21:51:52 UTC
From: MIKE DURKIN
Topic: 2039 Message: 2054

*Were you in with the MOBO, and audio Widget project?

no ... im just a tag along with bits and pieces ....

My uhfsdr composes of a Odroid-X2, USB soundcard 48Khz@16bit, UHFSDR and HF Pa @ 8W and VHF Pa 2M @ 45W .... soon to have a Pa for 1.25M@30W and 70cm@30W ...

To: UHFSDR@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Tue, 8 Sep 2015 20:57:14 +0000
Subject: Re: [UHFSDR] coil craft chokes

Hello Mike,Well yea you know how it goes, I don't just need another 40 meter rig on the desk !! hi hi....Thanks for the info, will look it up.Were you in with the MOBO, and audio Widget project?ChuckWA6LTV4

On Tuesday, September 8, 2015 3:56 PM, "MIKE DURKIN Patriot121@... [UHFSDR]" <UHFSDR@yahoogroups.com> wrote:

Something special? do tell .... the cats tail is out .. the rest might as well come out too .... lolThe guys at HobbyPCB are working on a tri-band amp @ 10W .... 2m,1.25 and 70cm ... though its for the RS-UV3 FM radio it might work fine for a UHFSDR ....To: UHFSDR@yahoogroups.comFrom: UHFSDR@yahoogroups.comDate: Tue, 8 Sep 2015 18:15:08 +0000Subject: Re: [UHFSDR] coil craft chokes

Hello Mike,Sorry I am so late to get back to you, but I didn't see the reply. Yes I made both of my UHFSDR radio's with the 1.4gig si570 chip. I haven't put them in enclosures, but have used them with differentSDR radio setups. Been waiting to use them with something special.Been busy building other radios also.Thanks,Chuck WA6LTV4 On Saturday, August 29, 2015 7:11 PM, "Mike Patriot121@... [UHFSDR]" <UHFSDR@yahoogroups.com> wrote:

Chuck ... do you have the 1.4ghz Si570?

right now i can do most HF (6M is unknown) 2M ... verified power on
220Mhz and 440Mhz (up to 512Mhz) as of this writing ...

I built a 2M amp and hope to have parts for 1.25M and 70cm ....

This is with 3 different choke values in series for output ... and
the 5054 front end change ...

On 08/29/2015 03:15 PM, Charles Nolin
wa6ltv@... [UHFSDR] wrote:

Hi Mike,
I have two
UHFSDR radio's I built and would like to know how you
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try to follow along,
and thank you
for posting your project here.
Chuck

WA6LTV/4

On
Thursday, August 27, 2015 11:15 PM, "Mike
Patriot121@... [UHFSDR]"
<UHFSDR@yahoogroups.com> wrote:

Looks like coil craft has seen fit
to send me samples of these conical
chokes ... i plan on testing them in
the output of the UHFSDR to see if i
can get HF, VHF and UHF output without
all the series coils.

BCR-221JLB
4310LC-132KEB

Mike KC7NOA

--
Mike KC7NOA

2055. Re: [UHFSDR] Filters for 2m and up

Yahoo group: UHFSDR
Date: 2015-09-10 20:47:31 UTC
From: Patriot121@...
Topic: 1078 Message: 2055

Kinda wish YU1LM BPF could be bought some where ... even a filter for 1.25M and 70cm ....

2056. Re: Filters for 2m and up

Yahoo group: UHFSDR
Date: 2015-09-10 20:50:07 UTC
From: Patriot121@...
Topic: 1078 Message: 2056

Also i dont think that downeastmicrowave is still selling the Temwell filters ... least i couldnt find them on their site ....

2057. filter design and testing

Yahoo group: UHFSDR
Date: 2015-09-16 19:41:57 UTC
From: MIKE DURKIN
Topic: 2057 Message: 2057

has anyone tried to used aade filter software with YU1LM 2M band pass filters ?

if you have, can i get your filter file ... i would like to modify it for 1.25M and 70cm ...

2058. New file uploaded to UHFSDR

Yahoo group: UHFSDR
Date: 2015-09-16 22:26:39 UTC
From: UHFSDR@yahoogroups.com
Topic: 2 Message: 2058

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the UHFSDR
group.

File : /yu144BPF.sch
Uploaded by : seth_otherpower <Patriot121@...>
Description : YU1LM 2M bandpass done in aade filter software

You can access this file at the URL:
https://groups.yahoo.com/neo/groups/UHFSDR/files/yu144BPF.sch

To learn more about file sharing for your group, please visit:
https://help.yahoo.com/kb/index?page=content&y=PROD_GRPS&locale=en_US&id=SLN15398

Regards,

seth_otherpower <Patriot121@...>

2059. FW: [n2adr-sdr] Quisk version 3.7.4

Yahoo group: UHFSDR
Date: 2015-09-18 05:15:17 UTC
From: MIKE DURKIN
Topic: 2059 Message: 2059
Attachments: 1 described; binary payloads are missing from this source WARC

had to forward from/to the SDR ....

Looking good .... now for a Tone squelch ? ---

but in all honesty ... im super happy repeater offset is working for VHF/UHF repeaters ....

Date: Thu, 17 Sep 2015 22:10:12 -0700
Subject: Re: FW: [n2adr-sdr] Quisk version 3.7.4
From: kc7noa@...
To: patriot121@...

looks good
On Thu, Sep 17, 2015 at 9:38 PM, MIKE DURKIN <patriot121@...> wrote:

To: n2adr-sdr@yahoogroups.com
From: n2adr-sdr@yahoogroups.com
Date: Thu, 17 Sep 2015 13:48:28 -0700
Subject: RE: [n2adr-sdr] Quisk version 3.7.4

Hello Sid and Mike,

Please find OnGraphData() in quisk.py and replace it with this. It is at lines 1969 to 1988 in Quisk 3.7.6:
def OnGraphData(self, data, y_zero, y_scale): sample_rate = int(self.sample_rate * self.zoom) #T('graph start') row = '' # Make a new row of pixels for a one-line image gain = self.rf_gain for x in data: # x is -130 to 0, or so (dB) l = int((x - gain + y_zero // 3 + 100) * y_scale / 10) l = max(l, 0) l = min(l, 255) row = row + "%c%c%c%c" % (chr(self.red[l]), chr(self.green[l]), chr(self.blue[l]), chr(255)) #T('graph string') # Perhaps use 4-byte pixels and BitmapFromBufferRGBA() bmp = wx.BitmapFromBufferRGBA(len(row) // 4, 1, row) bmp.x_origin = int(float(self.VFO) / sample_rate * self.data_width + 0.5) self.bitmaps.insert(0, bmp) del self.bitmaps[-1] #self.ScrollWindow(0, 1, None) #self.Refresh(False, (0, 0, self.graph_width, self.top_size + self.margin)) self.Refresh(False) #T('graph end')
This is the whole function, but only two lines have changed:
row = row + "%c%c%c%c" % (chr(self.red[l]), chr(self.green[l]), chr(self.blue[l]), chr(255))

bmp = wx.BitmapFromBufferRGBA(len(row) // 4, 1, row)

If it works I will move it to Quisk.
JimN2ADR

2060. Signal Levels in completed UHFSDR

Yahoo group: UHFSDR
Date: 2015-09-18 09:39:51 UTC
From: g.suggate@...
Topic: 2060 Message: 2060

I have been investigating a signal leakage problem round the mixers for some time now and have recently acquired a dual beam scope. So have been comparing the readings with those given in the assembly instructions. Unfortunately I think the assembly instruction readings are taken without the mixers fitted.
Can someone please give me the following from a working UHFSDR board. Freq set to 5 mhz

Level at TP8 and TP9. I read 0.5 v p-p
Levels at U18 Pin 7 and 6 also U17 Pin 7 and 6. I read 0.5 v p-p
Levels at U16 Pins 1 and 6 also U15 Pins 1 and 6. I read 0.2 v p-p

From the spec sheets for the DBMs, it seems the LO drive should be approaching 7dbm so 0.2 v p-p is way too low. I have checked the resistor values in the quadrature chains and these are OK.

I note the comment on the SDR2_IQGEN schematic which says "Pick for best match to DBM" and have tried reducing the 10 ohm value, but this only gave a marginal increase in level at the DBMs.

Thank you in anticipation

Geoff G3NPI

2061. Re: [UHFSDR] FW: [n2adr-sdr] Quisk version 3.7.4 [1 Attachment]

Yahoo group: UHFSDR
Date: 2015-09-18 10:46:14 UTC
From: Sid Boyce
Topic: 2059 Message: 2061

That's also fixed the issue on ODROID-U3/Hermes-Lite and Raspberry Pi 2/HiQSDR for me using quisk-3.7.6.

HiQSDR standalone with 7 inch touchscreen is excellent and I am thinking of using Hermes-Lite standalone also with a 7 inch touchscreen to make a small portable/mobile station.
73 ... Sid.

On 18/09/15 06:15, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>
> had to forward from/to the SDR ....
>
> Looking good .... now for a Tone squelch ? ---
>
> but in all honesty ... im super happy repeater offset is working for
> VHF/UHF repeaters ....
>
> ---
> Date: Thu, 17 Sep 2015 22:10:12 -0700
> Subject: Re: FW: [n2adr-sdr] Quisk version 3.7.4
> From: kc7noa@...
> To: patriot121@...
>
> looks good
>
> On Thu, Sep 17, 2015 at 9:38 PM, MIKE DURKIN <patriot121@...
> <mailto:patriot121@...>> wrote:
>
>
>
> ---
> To: n2adr-sdr@yahoogroups.com <mailto:n2adr-sdr@yahoogroups.com>
> From: n2adr-sdr@yahoogroups.com <mailto:n2adr-sdr@yahoogroups.com>
> Date: Thu, 17 Sep 2015 13:48:28 -0700
> Subject: RE: [n2adr-sdr] Quisk version 3.7.4
>
> Hello Sid and Mike,
>
> Please find OnGraphData() in quisk.py and replace it with this. It
> is at lines 1969 to 1988 in Quisk 3.7.6:
>
> def OnGraphData(self, data, y_zero, y_scale):
> sample_rate = int(self.sample_rate * self.zoom)
> #T('graph start')
> row = ''# Make a new row of pixels for a one-line image

```
> gain = self.rf_gain
> for x in data:# x is -130 to 0, or so (dB)
> l = int((x - gain + y_zero // 3 + 100) * y_scale / 10)
> l = max(l, 0)
> l = min(l, 255)
> row = row + "%c%c%c%c" % (chr(self.red[l]),
> chr(self.green[l]), chr(self.blue[l]), chr(255))
> #T('graph string')
> # Perhaps use 4-byte pixels and BitmapFromBufferRGBA()
> bmp = wx.BitmapFromBufferRGBA(len(row) // 4, 1, row)
> bmp.x_origin = int(float(self.VFO) / sample_rate *
> self.data_width + 0.5)
> self.bitmaps.insert(0, bmp)
> del self.bitmaps[-1]
> #self.ScrollWindow(0, 1, None)
> #self.Refresh(False, (0, 0, self.graph_width, self.top_size +
> self.margin))
> self.Refresh(False)
> #T('graph end')
>
> This is the whole function, but only two lines have changed:
>
> row = row + "%c%c%c%c" % (chr(self.red[l]),
> chr(self.green[l]), chr(self.blue[l]), chr(255))
>
> bmp = wx.BitmapFromBufferRGBA(len(row) // 4, 1, row)
>
> If it works I will move it to Quisk.
>
> Jim
> N2ADR
>
>
>
>
```

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

2062. RE: [UHFSDR] Signal Levels in completed UHFSDR

Yahoo group: UHFSDR
Date: 2015-09-18 15:21:25 UTC
From: MIKE DURKIN
Topic: 2060 Message: 2062

i think the audio drive is much higher than the signal from the Si570 chain ...

I could get the reading from mine either today or by middle of next week ....

Side note .. my output from my UHFSDR on 146.58Mhz was 19dbm ...

Which Si570 are you using ?

To: UHFSDR@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Fri, 18 Sep 2015 02:39:51 -0700
Subject: [UHFSDR] Signal Levels in completed UHFSDR

I have been investigating a signal leakage problem round the mixers for some time now and have recently acquired a dual beam scope. So have been comparing the readings with those given in the assembly instructions. Unfortunately I think the assembly instruction readings are taken without the mixers fitted.
Can someone please give me the following from a working UHFSDR board. Freq set to 5 mhz

Level at TP8 and TP9. I read 0.5 v p-p
Levels at U18 Pin 7 and 6 also U17 Pin 7 and 6. I read 0.5 v p-p
Levels at U16 Pins 1 and 6 also U15 Pins 1 and 6. I read 0.2 v p-p

From the spec sheets for the DBMs, it seems the LO drive should be approaching 7dbm so 0.2 v p-p is way too low. I have checked the resistor values in the quadrature chains and these are OK.

I note the comment on the SDR2_IQGEN schematic which says "Pick for best match to DBM" and have tried reducing the 10 ohm value, but this only gave a marginal increase in level at the DBMs.

Thank you in anticipation

Geoff G3NPI

2063. Re: [UHFSDR] Signal Levels in completed UHFSDR

Yahoo group: UHFSDR
Date: 2015-09-18 19:56:32 UTC
From: Dave
Topic: 2060 Message: 2063

Geoff:
U16 pins 1 and 6 are driven by a differential signal not referenced to ground. They are 180 degrees out of phase with each other. That gives you .4 V P-P between the two pins. Sounds a little low. How are you measuring it? It is a square wave and most multimeters will not read the P-P correctly. If using a scope the best is to use 2 channels and subtract them. As I recall, I saw about .8V difference between the two pins.

Dave - WB6DHW
<http://wb6dhw.com>

On 9/18/2015 2:39 AM, g.suggate@... [UHFSDR] wrote:
>
> I have been investigating a signal leakage problem round the mixers
> for some time now and have recently acquired a dual beam scope. So
> have been comparing the readings with those given in the assembly
> instructions. Unfortunately I think the assembly instruction readings
> are taken without the mixers fitted.
>
> Can someone please give me the following from a working UHFSDR board.
> Freq set to 5 mhz
>
>
> Level at TP8 and TP9. I read 0.5 v p-p
>
> Levels at U18 Pin 7 and 6 also U17 Pin 7 and 6. I read 0.5 v p-p
>
> Levels at U16 Pins 1 and 6 also U15 Pins 1 and 6. I read 0.2 v p-p
>
>
> From the spec sheets for the DBMs, it seems the LO drive should be
> approaching 7dbm so 0.2 v p-p is way too low. I have checked the
> resistor values in the quadrature chains and these are OK.
>
>
> I note the comment on the SDR2_IQGEN schematic which says "Pick for
> best match to DBM" and have tried reducing the 10 ohm value, but this
> only gave a marginal increase in level at the DBMs.
>
>
> Thank you in anticipation
>
>
> Geoff G3NPI

>
>
>
>
>

2064. RE: [UHFSDR] Signal Levels in completed UHFSDR

Yahoo group: UHFSDR
Date: 2015-09-19 09:48:20 UTC
From: g.suggate@...
Topic: 2060 Message: 2064

Hello Mike

When you are taking the readings I would appreciate the audio side levels as well. Although the fault I have, (a signal only 15 db down and off-set by the CW tone setting, getting through the mixers) is present even with no input on the audio side. Your figure of 19dbm o/p from the UHFSDR card is very interesting. My o/p has always been low at 2dbm (maybe a manifestation of the same fault?).

The Si 570 I use is the AAA000514G. From its spec sheet I decided that was a LVPECL and applied alternative resistor values as in SDR2_IQGEN.sch. I did wonder about this, but decided that as the Flip/flops
were switching that it was probably was OK....

Hello Dave

I have only just acquired a dual beam scope so not very used to its facilities.
I am measuring 0.2v p-p from U16-1 to ground. If I connect the second channel to U16-6 to ground then I also see 0.2v p-p 180 deg out of phase. The scope also has an ADD button but that does not change the display.
It also uses CHOP so perhaps not a great scope!
I have been considering what might cause low o/p from both the flip/flops and having checked the resistor chain to see if it was loading them and replacing the DBMs the only thing left is the flip/flops but they both give the same o/p which seems unlikely? Any thoughts?

Thank you both for your quick replies. Much appreciated

Geoff G3NPI

2065. RE: [UHFSDR] Signal Levels in completed UHFSDR

Yahoo group: UHFSDR
Date: 2015-09-23 13:59:08 UTC
From: g.suggate@...
Topic: 2060 Message: 2065

I have done a few more tests and it seems the flip/flops will not produce enough volts p-p, even with the load disconnected. The most I can get is 0.8v p-p {from each o/p to earth} and that was after changing the pull down resistors from 300 to 180 ohms. I still do not know if this low o/p is the fault, seems a bit unlikely as they both give the same o/p, but if it is SY10EP25 are not easy to obtain in the UK. Does anybody know of a replacement item...

Geoff G3NPI

2066. Re: [UHFSDR] Signal Levels in completed UHFSDR

Yahoo group: UHFSDR
Date: 2015-09-23 18:34:10 UTC
From: Dave
Topic: 2060 Message: 2066

Geoff:
Those FF are LVPECL. 0.8V p-p for each output to ground(1.6V P-P between the 2 outputs) is right on spec for LVPECL. Also, it is referenced to 2V rather than ground. The divider circuit with the 300 ohm set the 2V center point.

Dave - WB6DHW
<http://wb6dhw.com>

On 9/23/2015 6:59 AM, g.suggate@... [UHFSDR] wrote:
>
> I have done a few more tests and it seems the flip/flops will not
> produce enough volts p-p, even with the load disconnected. The most I
> can get is 0.8v p-p {from each o/p to earth} and that was after
> changing the pull down resistors from 300 to 180 ohms. I still do not
> know if this low o/p is the fault, seems a bit unlikely as they both
> give the same o/p, but if it is SY10EP25 are not easy to obtain in the
> UK. Does anybody know of a replacement item...
>
>
> Geoff G3NPI
>
>

2067. Re: [UHFSDR] Signal Levels in completed UHFSDR

Yahoo group: UHFSDR
Date: 2015-09-24 12:37:01 UTC
From: g.suggate@...
Topic: 2060 Message: 2067

Dave

Thank you for putting me back on the straight and narrow. I have put the 300ohm resistors back. That is the trouble with poke and hope. However doing nothing is not an option as the UHFSDR is unusable at the moment
I will have a look at increasing the level of the audio side as I am using a USB2SDR and have not met anybody else using that combination. Unfortunately this will be poke and hope as I do not know what the levels should be in a completed unit that is working well

Regards

Geoff G3NPI

2068. amp for UHFSDR

Yahoo group: UHFSDR
Date: 2015-11-12 16:35:04 UTC
From: Patriot121@...
Topic: 2068 Message: 2068

Iv posted a few pics of an amp that i built for 2M ...

It was fairly easy to build and i get 50W out of it ....

Feel free to ask me questions ....

Soon will be an amp for 1.25m and 70cm .... then 902-927 ... then maybe even 10ghz (depends on stability)

2069. BandPass Filters for 2m , 1.25M and 70cm

Yahoo group: UHFSDR
Date: 2015-11-12 16:46:21 UTC
From: Patriot121@...
Topic: 2069 Message: 2069

I recently received strip line filters from Jim WA2EUJ (HobbyPc) ... they were prototype filters ....

The difficulty was about the same if not a bit easyer than building the UHFSDR .....

I hand soldered all the pads. Then wicked them, placed some flux on the pads and stuck the surface mount surface parts onto the board. Popped into my toaster oven and WA-Lah, done. How simple is that?

Jim has already designed a second generation of those filters and sent me the plots/sweeps of those ... I just posted them to the photo album area.

Now if some one could design a switching board for the filters .. that would be great !!!! Im going to kludge together some relay to do it ....

Hope to get them in the mail soon , so i can get them built and on the air !!!!

2070. Re: [UHFSDR] amp for UHFSDR

Yahoo group: UHFSDR
Date: 2015-11-12 17:49:55 UTC
From: Gareth Jones
Topic: 2068 Message: 2070

Patriot 121 where are the pics of your 2m amp73's

On Thursday, 12 November 2015, 16:35, "Patriot121@... [UHFSDR]" <UHFSDR@yahoogroups.com> wrote:

  Iv posted a few pics of an amp that i built for 2M ...

It was fairly easy to build and i get 50W out of it ....

Feel free to ask me questions ....

Soon will be an amp for 1.25m and 70cm .... then 902-927 ... then maybe even 10ghz (depends on stability)

2071. RE: [UHFSDR] amp for UHFSDR

Yahoo group: UHFSDR
Date: 2015-11-12 18:05:22 UTC
From: MIKE DURKIN
Topic: 2068 Message: 2071

Its in the photo section under kc7noa .... i think,

this is a link to a mid construction point ....

https://groups.yahoo.com/neo/groups/UHFSDR/photos/albums/2143879841/lightbox/2083473715?orderBy=ordinal&sortOrder=asc&photoFilter=ALL#

link probably will not work .. but WTH ...

To: UHFSDR@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Thu, 12 Nov 2015 17:49:55 +0000
Subject: Re: [UHFSDR] amp for UHFSDR

Patriot 121 where are the pics of your 2m amp73's

On Thursday, 12 November 2015, 16:35, "Patriot121@... [UHFSDR]" <UHFSDR@yahoogroups.com> wrote:

Iv posted a few pics of an amp that i built for 2M ...It was fairly easy to build and i get 50W out of it ....Feel free to ask me questions .... Soon will be an amp for 1.25m and 70cm .... then 902-927 ... then maybe even 10ghz (depends on stability)

2072. Looking for ~50W to 100W low pass filters

Yahoo group: UHFSDR
Date: 2015-11-28 22:09:38 UTC
From: MIKE DURKIN
Topic: 2072 Message: 2072

Anyone know of anyone selling low pass filters bcp's/kit for 1.25m and 70cm ....

I think i can build them, but i don't think i have mica capacitors that are up for that kind of power level ...

2073. Re: [UHFSDR] Looking for ~50W to 100W low pass filters

Yahoo group: UHFSDR
Date: 2015-11-28 22:44:30 UTC
From: Jim Sanford
Topic: 2072 Message: 2073

Mike:
RFParts has heavy duty caps if you decide to build your own. If you do, please share design!
73,
Jim
wb4gcs@...

On 11/28/2015 5:09 PM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>
> Anyone know of anyone selling low pass filters bcp's/kit for 1.25m and
> 70cm ....
>
> I think i can build them, but i don't think i have mica capacitors
> that are up for that kind of power level ...
>

This email has been checked for viruses by Avast antivirus software.
https://www.avast.com/antivirus

2074. 2M bandpass filter for sale

Yahoo group: UHFSDR
Date: 2015-11-29 18:27:32 UTC
From: MIKE DURKIN
Topic: 2074 Message: 2074

Just throwing it out there .....

Don't know if any one is interested but iv decided to sell my PROCOM DPF2/6LH-24-30 its been tuned to the 2M band ....

Its rated for 60W and i have run 50W through it ....

Id like 50$ for it plus shipping ....

Ill help anyone with building an amp for 2M that buys it ...

2075. moving along

Yahoo group: UHFSDR
Date: 2015-12-03 07:08:33 UTC
From: MIKE DURKIN
Topic: 2075 Message: 2075

Its getting ugly ... but works ....

soon to have Hf through 70cm (minus 6m) ...

<http://i1349.photobucket.com/albums/p747/seth747/Mobile%20Uploads/20151202_225515_zpsmddqpchd.jpg>

Lets see if yahoo kills the link ....

2076. RE: [UHFSDR] moving along

Yahoo group: UHFSDR
Date: 2015-12-03 07:13:02 UTC
From: MIKE DURKIN
Topic: 2075 Message: 2076

Forgot to mention that the ferrite loaded choke from (jesh i forget) works from 160m to top of as far as Quisk can go .... 512Mhz.

for some reason 10M quit and i think its due to my bandpass filter that original to the radio -- probably been damaged. Its also will be replaced with Daves bandpass board sooner or later.

To: uhfsdr@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Wed, 2 Dec 2015 23:08:33 -0800
Subject: [UHFSDR] moving along

Its getting ugly ... but works ....

soon to have Hf through 70cm (minus 6m) ...

<http://i1349.photobucket.com/albums/p747/seth747/Mobile%20Uploads/20151202_225515_zpsmddqpchd.jpg>

Lets see if yahoo kills the link ....

2077. Re: [AQRP] Looking for ~50W to 100W low pass filters

Yahoo group: UHFSDR
Date: 2015-12-09 01:31:24 UTC
From: Kirk Maskalenko
Topic: 2072 Message: 2077

Have you looked at these? They handle more power than you need. Good design info as well.

http://www.w6pql.com/filter_+_coupler_+_detectors.htm

Kirk wb8c

Sent from my iPad

> On Nov 28, 2015, at 5:09 PM, MIKE DURKIN Patriot121@... [AQRP] <AQRP@yahoogroups.com> wrote:
>
> Anyone know of anyone selling low pass filters bcp's/kit for 1.25m and 70cm ....
>
> I think i can build them, but i don't think i have mica capacitors that are up for that kind of power level ...
>

2078. RE: [UHFSDR] Re: [AQRP] Looking for ~50W to 100W low pass filters

Yahoo group: UHFSDR
Date: 2015-12-09 02:18:04 UTC
From: MIKE DURKIN
Topic: 2072 Message: 2078

Sure did ....

I was planning on using his values for building some low pass filters ....

I did and still don't see where to purchase .... having a detector and swr alert would be nice ...

CC: softrock40@yahoogroups.com; uhfsdr@yahoogroups.com
To: AQRP@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Tue, 8 Dec 2015 20:31:24 -0500
Subject: [UHFSDR] Re: [AQRP] Looking for ~50W to 100W low pass filters

Have you looked at these? They handle more power than you need. Good design info as well.
http://www.w6pql.com/filter_+_coupler_+_detectors.htm
Kirk wb8c
Sent from my iPad
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I think i can build them, but i don't think i have mica capacitors that are up for that kind of power level ...

2079. Re: [UHFSDR] Re: [AQRP] Looking for ~50W to 100W low pass filters

Yahoo group: UHFSDR
Date: 2015-12-09 02:31:36 UTC
From: Kirk Maskalenko
Topic: 2072 Message: 2079

Here the link to the parts he sells. The filters are most the way down the page.

http://www.w6pql.com/parts_i_can_provide.htm

73,

Kirk wb8c

Sent from my iPad

> On Dec 8, 2015, at 9:18 PM, MIKE DURKIN Patriot121@... [UHFSDR] <UHFSDR@yahoogroups.com> wrote:
>
> Sure did ....
>
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> I did and still don't see where to purchase .... having a detector and swr alert would be nice ...
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> CC: softrock40@yahoogroups.com; uhfsdr@yahoogroups.com
> To: AQRP@yahoogroups.com
> From: UHFSDR@yahoogroups.com
> Date: Tue, 8 Dec 2015 20:31:24 -0500
> Subject: [UHFSDR] Re: [AQRP] Looking for ~50W to 100W low pass filters
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>
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> Have you looked at these? They handle more power than you need. Good design info as well.
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> http://www.w6pql.com/filter_+_coupler_+_detectors.htm
>
> Kirk wb8c
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> Sent from my iPad
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> On Nov 28, 2015, at 5:09 PM, MIKE DURKIN Patriot121@... [AQRP] <AQRP@yahoogroups.com> wrote:
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>
> Anyone know of anyone selling low pass filters bcp's/kit for 1.25m and 70cm ....
>
> I think i can build them, but i don't think i have mica capacitors that are up for that kind of power level ...
>

>
>

2080. RE: [UHFSDR] Re: [AQRP] Looking for ~50W to 100W low pass filters

Yahoo group: UHFSDR
Date: 2015-12-09 03:05:58 UTC
From: MIKE DURKIN
Topic: 2072 Message: 2080

That's right ....

That's the reason i passed on it .... 75$

Im not sure how much those silver mica caps are .... but i built my amps for less than 50$ each .... im still looking for a better price point ...

To: UHFSDR@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Tue, 8 Dec 2015 21:31:36 -0500
Subject: Re: [UHFSDR] Re: [AQRP] Looking for ~50W to 100W low pass filters

Here the link to the parts he sells. The filters are most the way down the page.
http://www.w6pql.com/parts_i_can_provide.htm
73,
Kirk wb8c

Sent from my iPad
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Sure did ....

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I did and still don't see where to purchase .... having a detector and swr alert would be nice ...

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To: AQRP@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Tue, 8 Dec 2015 20:31:24 -0500
Subject: [UHFSDR] Re: [AQRP] Looking for ~50W to 100W low pass filters

Have you looked at these? They handle more power than you need. Good design info as well.
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Sent from my iPad
On Nov 28, 2015, at 5:09 PM, MIKE DURKIN Patriot121@... [AQRP] <AQRP@yahoogroups.com> wrote:

Anyone know of anyone selling low pass filters bcp's/kit for 1.25m and 70cm ....

I think i can build them, but i don't think i have mica capacitors that are up for that kind of power level ...

2081. im not sure if i have a software or hardware problem

Yahoo group: UHFSDR
Date: 2015-12-17 07:21:48 UTC
From: MIKE DURKIN
Topic: 2081 Message: 2081

Does any one else use the SD-AUD20101 usb soundcard ....??

If so .. are you having a shift in Rx phase / gain each time you boot ?

What software and OS are you using ?

2082. RE: [softrock40] im not sure if i have a software or hardware problem

Yahoo group: UHFSDR
Date: 2015-12-17 16:03:44 UTC
From: MIKE DURKIN
Topic: 2082 Message: 2082

Are you saying that apon each reboot ... that the phase/gain adjustment was different .... or that you couldn't achieve a image rejection ?

I can null the image to the point that i cant see it (48Khz@16bit -- i cant get 24bit to work) .... but im not sure when the phase/gain changes .... either apon each reboot -- or does it change if i remove the usb card too ....

I need to take some time to investigate some more .... my Quad core Arm USB bus is about maxed out as far as data goes ....

Im starting to wonder if the crystal on the soundcard is of low quality

or my Si570 does not have the same phase error each time its booted -- simple fix is to constantly power the Si570 ....

To: softrock40@yahoogroups.com
From: softrock40@yahoogroups.com
Date: Thu, 17 Dec 2015 07:48:32 +0000
Subject: Re: [softrock40] im not sure if i have a software or hardware problem

Original Message -----

Subject: [softrock40] im not sure if i have a software or hardware problem

>Does any one else use the SD-AUD20101 usb soundcard ....??

>If so .. are you having a shift in Rx phase / gain each time you boot ?

I tried my one recently.

And realised why it had got to the bottom of my junk box.

I found phasing was impossible at 48ksps, did work at 96ksps but varied widely over the spectrum.

>What software and OS are you using ?

W10 and HDSDR but I did try it on XP earlier and wondered what was wrong. In all cases just using the default Windows driver.

73 Alan G4ZFQ

2083. Si570 in VHF

Yahoo group: UHFSDR
Date: 2015-12-20 22:39:09 UTC
From: MIKE DURKIN
Topic: 2083 Message: 2083

Im wondering if anyone has tested the phase error change of the Si570 after repeated shutdown's/power ups ?

2084. uhf vhf

Yahoo group: UHFSDR
Date: 2015-12-22 00:00:32 UTC
From: MIKE DURKIN
Topic: 2084 Message: 2084

Does any one use their UHFSDR in the VHF UHF range ? above?

2085. Re: [UHFSDR] uhf vhf

Yahoo group: UHFSDR
Date: 2015-12-22 06:01:04 UTC
From: Dave
Topic: 2084 Message: 2085

I haven't in quite a while. But, I did make a couple of contacts on 2M FM, simplex and through a repeater about 25 miles away barefoot. Also received 70 cm repeaters, the WX transmitters on 160 MHz, and an analog TV translator.

Dave - WB6DHW
<http://wb6dhw.com>

On 12/21/2015 4:00 PM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>
> Does any one use their UHFSDR in the VHF UHF range ? above?
>

2086. RE: [UHFSDR] uhf vhf

Yahoo group: UHFSDR
Date: 2015-12-22 06:34:35 UTC
From: MIKE DURKIN
Topic: 2084 Message: 2086

ever notice a slight change in phase/gain after a reboot with Ubuntu/Quisk ....

Im wondering if i have a soundcard that changes or something else .... i leaning twards the soundcard because i get a shift in gain and phase after each reboot .. be it short time (nothing really gets a chance to cool down) or over a few days ...

Its something that iv noticed for a while and always just ran the calibration again .... but id like to not do that .... If the Si570 needs to be left powered -- thats not a problem .

I dont think it would be noticeable at HF frequency’s ... but i am noticing it at VHF .

To: UHFSDR@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Mon, 21 Dec 2015 22:01:04 -0800
Subject: Re: [UHFSDR] uhf vhf

I haven't in quite a while. But, I
did make a couple of contacts on 2M FM, simplex and through a
repeater about 25 miles away barefoot. Also received 70 cm
repeaters, the WX transmitters on 160 MHz, and an analog TV
translator.

Dave - WB6DHW

<http://wb6dhw.com>

On 12/21/2015 4:00 PM, MIKE DURKIN Patriot121@... [UHFSDR]
wrote:

Does any one use their UHFSDR in the VHF UHF
range ? above?

2087. Re: [UHFSDR] uhf vhf

Yahoo group: UHFSDR
Date: 2015-12-22 08:05:43 UTC
From: Dave
Topic: 2084 Message: 2087

Mike:
I have only used it with windows. I would think the only place the gain could change is the soundcard as the audio amps in the UHFSDR have fixed resistors for the gain. The Si570 should not affect the phase as the 2 outputs are 180 degrees apart from a common point. The flip flops generate the I and Q and they are digital. If it is in the soundcard, it should be the same on HF and VHF. I noticed a little more phase error on 70cm, but still got about 30 dB opposite sideband rejection before having the program correct the phase. But, stayed stable. A high resistance or rosin joint somewhere?

Dave - WB6DHW
<http://wb6dhw.com>

On 12/21/2015 10:34 PM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>
> ever notice a slight change in phase/gain after a reboot with
> Ubuntu/Quisk ....
>
> Im wondering if i have a soundcard that changes or something else ....
> i leaning twards the soundcard because i get a shift in gain and phase
> after each reboot .. be it short time (nothing really gets a chance to
> cool down) or over a few days ...
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> Its something that iv noticed for a while and always just ran the
> calibration again .... but id like to not do that .... If the Si570
> needs to be left powered -- thats not a problem .
>
> I dont think it would be noticeable at HF frequency?s ... but i am
> noticing it at VHF .
>
>
> ---
> To: UHFSDR@yahoogroups.com
> From: UHFSDR@yahoogroups.com
> Date: Mon, 21 Dec 2015 22:01:04 -0800
> Subject: Re: [UHFSDR] uhf vhf
>
>
> I haven't in quite a while. But, I did make a couple of contacts on
> 2M FM, simplex and through a repeater about 25 miles away barefoot.
> Also received 70 cm repeaters, the WX transmitters on 160 MHz, and an
> analog TV translator.
>
> Dave - WB6DHW

> <http://wb6dhw.com> <http://wb6dhw.com>
>
> On 12/21/2015 4:00 PM, MIKE DURKIN Patriot121@...
> <mailto:Patriot121@...> [UHFSDR] wrote:
>
>
> Does any one use their UHFSDR in the VHF UHF range ? above?
>
>
>
>

2088. Re: uhf vhf

Yahoo group: UHFSDR
Date: 2015-12-22 11:51:27 UTC
From: g.suggate@...
Topic: 2084 Message: 2088

I have used UHFSDR on our 70mhz band (does this count as VHF!!) for several years in conjunction with a USB2SDR. I have experienced problems which I have yet to solve. Namely: Images on incoming strong signals and on transmit, a carrier only 20dbm down.
I watch your discussion with interest as I suppose phase change could be a contributor to the image problem.
I am intending to increase the o/p of the USB2SDR to hopefully tackle the carrier problem.

Geoff G3NPI

2089. RE: [UHFSDR] Re: uhf vhf

Yahoo group: UHFSDR
Date: 2015-12-22 18:00:54 UTC
From: MIKE DURKIN
Topic: 2084 Message: 2089

Im not sure what "o/p" is ....

Iv never had an issue with not being able to null the Image .... (my problem is that the phase/gain keeps changing some)

after the recent upgrade of the Rx amp (u4) i get products with strong signals (vhf) .... this upgrade has greatly increased the VHF/UHF reception while degrading the HF some ....

How much power are you getting out of your UHFSDR ...

What are you using for bandpass filters in the UHF/VHF area ?

To: UHFSDR@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Tue, 22 Dec 2015 03:51:27 -0800
Subject: [UHFSDR] Re: uhf vhf

I have used UHFSDR on our 70mhz band (does this count as VHF!!) for several years in conjunction with a USB2SDR. I have experienced problems which I have yet to solve. Namely: Images on incoming strong signals and on transmit, a carrier only 20dbm down.
I watch your discussion with interest as I suppose phase change could be a contributor to the image problem.
I am intending to increase the o/p of the USB2SDR to hopefully tackle the carrier problem.

Geoff G3NPI

2090. RE: [UHFSDR] uhf vhf

Yahoo group: UHFSDR
Date: 2015-12-22 18:05:41 UTC
From: MIKE DURKIN
Topic: 2084 Message: 2090

Could be a rosin joint .... but im leaning twards soundcard ....

I need to go back to my 48khz@16b card and see if its still the same issue .... at least that should reduce the options on what is causing this ....

The phase/gain error is stable ... untill reboot .... thats been the thought .... but since i almost always power down the UHFSDR also when computer is shut down ....

I need to reboot with out shutting down the UHFSDR to try to quantify the phase/gain error shifting.

To: UHFSDR@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Tue, 22 Dec 2015 00:05:43 -0800
Subject: Re: [UHFSDR] uhf vhf

Mike:

I have only used it with windows. I would think the only place the gain could change is the soundcard as the audio amps in the UHFSDR have fixed resistors for the gain. The Si570 should not affect the phase as the 2 outputs are 180 degrees apart from a common point. The flip flops generate the I and Q and they are digital. If it is in the soundcard, it should be the same on HF and VHF. I noticed a little more phase error on 70cm, but still got about 30 dB opposite sideband rejection before having the program correct the phase. But, stayed stable. A high resistance or rosin joint somewhere?

Dave - WB6DHW

<http://wb6dhw.com>

On 12/21/2015 10:34 PM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:

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I dont think it would be noticeable at HF frequency’s ...
but i am noticing it at VHF .

To: UHFSDR@yahoogroups.com

From: UHFSDR@yahoogroups.com

Date: Mon, 21 Dec 2015 22:01:04 -0800

Subject: Re: [UHFSDR] uhf vhf

I haven't in
quite a while. But, I did make a couple of
contacts on 2M FM, simplex and through a
repeater about 25 miles away barefoot. Also
received 70 cm repeaters, the WX transmitters on
160 MHz, and an analog TV translator.

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On 12/21/2015 4:00 PM, MIKE DURKIN Patriot121@...
[UHFSDR] wrote:

Does any one use their UHFSDR
in the VHF UHF range ? above?

2091. RE: [UHFSDR] uhf vhf

Yahoo group: UHFSDR
Date: 2015-12-23 05:49:09 UTC
From: MIKE DURKIN
Topic: 2084 Message: 2091

Well .. got my older soundcard working ....

need to get my 1.25M and 70cm amp built and the relay control for routeing the signal to each built .... wich includes the 2M amp too .... meaning that i cant check the phase/gain error untill its finished --- oppssssss

To: uhfsdr@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Tue, 22 Dec 2015 10:05:41 -0800
Subject: RE: [UHFSDR] uhf vhf

Could be a rosin joint .... but im leaning twards soundcard ....

I need to go back to my 48khz@16b card and see if its still the same issue .... at least that should reduce the options on what is causing this ....

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From: UHFSDR@yahoogroups.com
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Subject: Re: [UHFSDR] uhf vhf

Mike:

I have only used it with windows. I would think the only place the gain could change is the soundcard as the audio amps in the UHFSDR have fixed resistors for the gain. The Si570 should not affect the phase as the 2 outputs are 180 degrees apart from a common point. The flip flops generate the I and Q and they are digital. If it is in the soundcard, it should be the same on HF and VHF. I noticed a little more phase error on 70cm, but still got about 30 dB opposite sideband rejection before having the program correct the phase. But, stayed stable. A high resistance or rosin joint somewhere?

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received 70 cm repeaters, the WX transmitters on
160 MHz, and an analog TV translator.

Dave - WB6DHW

<http://wb6dhw.com>

On 12/21/2015 4:00 PM, MIKE DURKIN Patriot121@msn.com
[UHFSDR] wrote:

Does any one use their UHFSDR
in the VHF UHF range ? above?

2092. Si570 European sources

Yahoo group: UHFSDR
Date: 2015-12-23 21:30:40 UTC
From: dave@...
Topic: 2092 Message: 2092

Anyone know where in Europe the LVPECL or LVDS versions of the Si570 are available? Anyone outside the USA tried to order from the SiLabs website?

2093. Re: [UHFSDR] Si570 European sources

Yahoo group: UHFSDR
Date: 2015-12-23 21:34:18 UTC
From: Stephen Farthing
Topic: 2092 Message: 2093

Www.sdr-kits.net sell them

Regards,

Steve G0XAR

On Wednesday, 23 December 2015, dave@... [UHFSDR] <
UHFSDR@yahoogroups.com> wrote:

>
>
> Anyone know where in Europe the LVPECL or LVDS versions of the Si570 are
> available? Anyone outside the USA tried to order from the SiLabs website?
>
>
>

2094. Re: [UHFSDR] Si570 European sources

Yahoo group: UHFSDR
Date: 2015-12-23 22:07:54 UTC
From: Dave
Topic: 2092 Message: 2094

Steve:
Thanks for the info. I will add it to my web page. LVDS will work
on the UHFSDR. CML should work(I haven't tried it) with some resister
changes or deletions.

Dave - WB6DHW
HTTP:??WB^DHW>COM

On 12/23/2015 1:34 PM, Stephen Farthing squirrox@... [UHFSDR] wrote:
>
> Www.sdr-kits.net <http://Www.sdr-kits.net> sell them
>
>
> Regards,
>
> Steve G0XAR
>
> On Wednesday, 23 December 2015, dave@...
> <mailto:dave@...> [UHFSDR] <UHFSDR@yahoogroups.com
> <mailto:UHFSDR@yahoogroups.com>> wrote:
>
> Anyone know where in Europe the LVPECL or LVDS versions of the
> Si570 are available? Anyone outside the USA tried to order from
> the SiLabs website?
>
>

2095. RE: [UHFSDR] Si570 European sources

Yahoo group: UHFSDR
Date: 2015-12-23 23:25:34 UTC
From: Marc OLANIE
Topic: 2092 Message: 2095
Attachments: 2 described; binary payloads are missing from this source WARC

Hi Dave

Many years ago, I tried – in vain- to buy some devices directly from SiLabs. But not recently. S&H fees where… astronomic. It still is a problem for some hard to find references (for ex. Shipping of the the Si510 used in the Hermes Lite project cost twice the price of the device and is sold only by US distributors)

By chance, it is really easy to find Si570 here in Europe. Jan G0BBL got an impressive stock in UK (Cmos, LVDS and CML)
http://www.sdr-kits.net/Webshop/index.php?cPath=7&osCsid=18r6llrhsd3untk56k0ririnc7

His webshop is running for many years and his customer service is really serious. All UHFSDR and Softrock I've build so far are using silabs oscillator coming from SDR-Kits.

Hope it will help
73'
Marc f6itu

De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
Envoyé : mercredi 23 décembre 2015 22:31
À : UHFSDR@yahoogroups.com
Objet : [UHFSDR] Si570 European sources

Anyone know where in Europe the LVPECL or LVDS versions of the Si570 are available? Anyone outside the USA tried to order from the SiLabs website?

2096. RE: [UHFSDR] Re: uhf vhf

Yahoo group: UHFSDR
Date: 2015-12-24 14:42:49 UTC
From: ed.murphy31@...
Topic: 2084 Message: 2096

Hi All,
Using the UHFSDR design, to get good and stable image performance you must have a consistent 50 percent duty cycle on the output of the Si570. If you look at the specification of the Si570 I think you shall find that there is a large tolerance on the output. ie , It is not a square wave.
Regards
Ed Gm3sbc

2097. RE: [UHFSDR] Re: uhf vhf

Yahoo group: UHFSDR
Date: 2015-12-24 17:39:10 UTC
From: MIKE DURKIN
Topic: 2084 Message: 2097

Have you noticed any image rejection shifts after a reboot of the hardware....
In the Phase/gain of a frequency that has already been calibrated?

I cant test with my old soundcard right now .... im updating my SDR with a 1.25M and 70cm amplifier ..

To: UHFSDR@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Thu, 24 Dec 2015 06:42:49 -0800
Subject: RE: [UHFSDR] Re: uhf vhf

Hi All,

Using the UHFSDR design, to get good and stable image performance you must have a consistent 50 percent duty cycle on the output of the Si570. If you look at the specification of the Si570 I think you shall find that there is a large tolerance on the output. ie , It is not a square wave.

Regards

Ed Gm3sbc

2098. Re: [UHFSDR] Si570 European sources

Yahoo group: UHFSDR
Date: 2015-12-25 01:27:38 UTC
From: Sid Boyce
Topic: 2092 Message: 2098

I would have to check.
I thought the UHFSDR calls for si570A LVPECL.
That's what I used on my 2 UHFSDR boards.
73 ... Sid.

On 23/12/15 23:25, Marc OLANIE Marc.olanie@... [UHFSDR] wrote:
>
> Hi Dave
>
> Many years ago, I tried – in vain- to buy some devices directly from
> SiLabs. But not recently. S&H fees where… astronomic. It still is a
> problem for some hard to find references (for ex. Shipping of the the
> Si510 used in the Hermes Lite project cost twice the price of the
> device and is sold only by US distributors)
>
> By chance, it is really easy to find Si570 here in Europe. Jan G0BBL
> got an impressive stock in UK (Cmos, LVDS and CML)
>
> http://www.sdr-kits.net/Webshop/index.php?cPath=7&osCsid=18r6llrhsd3untk56k0ririnc7
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> His webshop is running for many years and his customer service is
> really serious. All UHFSDR and Softrock I’ve build so far are using
> silabs oscillator coming from SDR-Kits.
>
> Hope it will help
>
> 73’
>
> Marc f6itu
>
> *De :*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
> *Envoyé :* mercredi 23 décembre 2015 22:31
> *À :* UHFSDR@yahoogroups.com
> *Objet :* [UHFSDR] Si570 European sources
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> Anyone know where in Europe the LVPECL or LVDS versions of the Si570
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Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

2099. RE: [UHFSDR] Si570 European sources

Yahoo group: UHFSDR
Date: 2015-12-25 06:05:08 UTC
From: Marc OLANIE
Topic: 2092 Message: 2099

Your definitely right, Sid.
The only AAA device I have was coming from a kit delivered by Art. My other rigs are using DBA and CAC devices without trouble
As Jan is already a regular customer of Silabs, a "group buy" for a specific reference could be feasible.
Marc

-----Message d'origine-----
De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
Envoyé : vendredi 25 décembre 2015 02:28
À : UHFSDR@yahoogroups.com
Objet : Re: [UHFSDR] Si570 European sources

I would have to check.
I thought the UHFSDR calls for si570A LVPECL.
That's what I used on my 2 UHFSDR boards.
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Yahoo Groups Links

2100. Re: [UHFSDR] Si570 European sources

Yahoo group: UHFSDR
Date: 2015-12-25 15:35:12 UTC
From: Sid Boyce
Topic: 2092 Message: 2100

Hi Marc,
I had bad experiences with the Silabs samples.
Both were faulty - one died after a month and the second was DOA.
Another one donated by GI1SET was also.

The first one that worked was one donated by George Boudreau.
73 ... Sid.

On 25/12/15 06:05, Marc OLANIE Marc.olanie@... [UHFSDR] wrote:
>
> Your definitely right, Sid.
> The only AAA device I have was coming from a kit delivered by Art. My
> other rigs are using DBA and CAC devices without trouble
> As Jan is already a regular customer of Silabs, a "group buy" for a
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> Marc
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> -----Message d'origine-----
> De? : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
> Envoyé? : vendredi 25 décembre 2015 02:28
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2101. RE: [UHFSDR] Si570 European sources

Yahoo group: UHFSDR
Date: 2015-12-25 19:55:46 UTC
From: Marc OLANIE
Topic: 2092 Message: 2101

Hi Sid

I feel sorry, still my rotten English :-(
I didn't meant "sample" when I was mentioning Jan. He is considered as a regular customer and a normal and official retailer (not a real "distributor", but neither a "grey market reseller"). That means I'm pretty sure he is able to buy quantities of AAA grade Silab components directly from the manufacturer if (and it is an important detail) if the demand is high enough. That means at least a group-buy of 10 people I think, probably more.

All the devices I bought from SDR-Kit have been fully functional (and still are... I have a certain talent to transform ICs in blue smoke, but by chance, I never fried a SI570)

73' and season's greatings :- D

Marc f6itu

-----Message d'origine-----
De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
Envoyé : vendredi 25 décembre 2015 16:35
À : UHFSDR@yahoogroups.com
Objet : Re: [UHFSDR] Si570 European sources

Hi Marc,
I had bad experiences with the Silabs samples.
Both were faulty - one died after a month and the second was DOA.
Another one donated by GI1SET was also.

The first one that worked was one donated by George Boudreau.
73 ... Sid.

On 25/12/15 06:05, Marc OLANIE Marc.olanie@decision.fr [UHFSDR] wrote:
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> Your definitely right, Sid.
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> -----Message d'origine-----
> DeÂ : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com] EnvoyÃ©Â
> : vendredi 25 dÃ©cembre 2015 02:28 Ã€Â : UHFSDR@yahoogroups.com ObjetÂ
> : Re: [UHFSDR] Si570 European sources
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> I would have to check.
> I thought the UHFSDR calls for si570A LVPECL.
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Yahoo Groups Links

2102. Re: [UHFSDR] Si570 European sources

Yahoo group: UHFSDR
Date: 2015-12-25 21:43:17 UTC
From: Stephen Farthing
Topic: 2092 Message: 2102

Guys,

I have known Jan for 20 plus years and occasionally help out beta testing SDR-kits products. I am quite happy to approach him if you want something he does not stock. He buys parts directly from Si Labs and as well as supplying hams supplies commercial companies.

I have soldered Si570s many times, removed them from boards and reused them. I have not destroyed one yet.

Regards,

Steve G0XAR

On Friday, 25 December 2015, Marc OLANIE Marc.olanie@... [UHFSDR] <
UHFSDR@yahoogroups.com> wrote:

>
>
> Hi Sid
>
> I feel sorry, still my rotten English :-(
> I didn't meant "sample" when I was mentioning Jan. He is considered as a
> regular customer and a normal and official retailer (not a real
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> All the devices I bought from SDR-Kit have been fully functional (and
> still are... I have a certain talent to transform ICs in blue smoke, but by
> chance, I never fried a SI570)
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> 73' and season's greatings :- D
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> Marc f6itu
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> -----Message d'origine-----
> De : UHFSDR@yahoogroups.com
> <javascript:_e(%7B%7D,'cvml','UHFSDR@yahoogroups.com');> [mailto:
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> Envoyé : vendredi 25 décembre 2015 16:35
> À : UHFSDR@yahoogroups.com

> <javascript:_e(%7B%7D,'cvml','UHFSDR@yahoogroups.com');>
> Objet : Re: [UHFSDR] Si570 European sources
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2103. Re: [UHFSDR] Si570 European sources

Yahoo group: UHFSDR
Date: 2015-12-25 21:59:57 UTC
From: Sid Boyce
Topic: 2092 Message: 2103

Hi Marc,
No problem with your English.
I understood they were ones you bought from SDR-Kits.

I think the free samples were the ones that didn't quite make the spec.
No problems with the C samples for Softrock, just with the A samples
for the UHFSDR.
73 ... Sid.

On 25/12/15 19:55, Marc OLANIE Marc.olanie@... [UHFSDR] wrote:
>
> Hi Sid
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> I feel sorry, still my rotten English :-(
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> Envoyé? : vendredi 25 décembre 2015 16:35
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2104. Re: [UHFSDR] Si570 European sources

Yahoo group: UHFSDR
Date: 2015-12-25 22:08:18 UTC
From: Sid Boyce
Topic: 2092 Message: 2104

Hi Steve,
As I pointed out to Marc, only the si570A samples from SiLabs were a problem and I think the the free samples were devices not meeting the spec.

Neither the free C samples nor the bought full spec'd A devices have ever failed.
73 ... Sid.

On 25/12/15 21:43, Stephen Farthing squirrox@... [UHFSDR] wrote:
>
> Guys,?
>
>
> I have known Jan for 20 plus years and occasionally help out beta
> testing SDR-kits products. I am quite happy to approach him if you
> want something he does not stock.? He buys parts directly from Si Labs
> and as well as supplying hams supplies commercial companies.?
>
> I have soldered Si570s many times, removed them from boards and reused
> them. I have not destroyed one yet.?
>
> Regards,?
>
> Steve G0XAR
>
> On Friday, 25 December 2015, Marc OLANIE Marc.olanie@...
> <mailto:Marc.olanie@...> [UHFSDR] <UHFSDR@yahoogroups.com
> <mailto:UHFSDR@yahoogroups.com>> wrote:
>
> ?
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> Hi Sid
>
> I feel sorry, still my rotten English :-(
> I didn't meant "sample" when I was mentioning Jan. He is
> considered as a regular customer and a normal and official
> retailer (not a real "distributor", but neither a "grey market
> reseller"). That means I'm pretty sure he is able to buy
> quantities of AAA grade Silab components directly from the
> manufacturer if (and it is an important detail) if the demand is
> high enough. That means at least a group-buy of 10 people I think,
> probably more.
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> All the devices I bought from SDR-Kit have been fully functional
> (and still are... I have a certain talent to transform ICs in blue

> smoke, but by chance, I never fried a SI570)
>
> 73' and season's greatings :- D
>
> Marc f6itu
>
>
> -----Message d'origine-----
> De? : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
> Envoyé? : vendredi 25 décembre 2015 16:35
> À? : UHFSDR@yahoogroups.com
> Objet? : Re: [UHFSDR] Si570 European sources
>
> Hi Marc,
> I had bad experiences with the Silabs samples.
> Both were faulty - one died after a month and the second was DOA.
> Another one donated by GI1SET was also.
>
> The first one that worked was one donated by George Boudreau.
> 73 ... Sid.
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> On 25/12/15 06:05, Marc OLANIE Marc.olanie@... [UHFSDR]
> wrote:
> >
> > Your definitely right, Sid.
> > The only AAA device I have was coming from a kit delivered by
> Art. My
> > other rigs are using DBA and CAC devices without trouble As Jan is
> > already a regular customer of Silabs, a "group buy" for a specific
> > reference could be feasible.
> > Marc
> >
> > -----Message d'origine-----
> > DeÂ : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
> EnvoyÃ©Â
> > : vendredi 25 dÃ©cembre 2015 02:28 Ã€Â :
> UHFSDR@yahoogroups.com ObjetÂ
> > : Re: [UHFSDR] Si570 European sources
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> > I would have to check.
> > I thought the UHFSDR calls for si570A LVPECL.
> > That's what I used on my 2 UHFSDR boards.
> > 73 ... Sid.
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> > On 23/12/15 23:25, Marc OLANIE Marc.olanie@... [UHFSDR]
> wrote:
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> > > Hi Dave
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> > > Many years ago, I tried Ã¢â‚¬â€œ in vain- to buy

> some devices
> > directly from
> > > SiLabs. But not recently. S&H fees whereÃ¢â‚¬Â¦
> astronomic. It still
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> > > problem for some hard to find references (for ex. Shipping of the
> > > the
> > > Si510 used in the Hermes Lite project cost twice the price of the
> > > device and is sold only by US distributors)
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> > > By chance, it is really easy to find Si570 here in Europe. Jan
> G0BBL
> > > got an impressive stock in UK (Cmos, LVDS and CML)
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> > > un
> > > tk56k0ririnc7
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> build so far are
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> > > silabs oscillator coming from SDR-Kits.
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> > > Hope it will help
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> > > 73Ã¢â‚¬â„¢
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> > > Marc f6itu
> > >
> > > *De :*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
> > > *EnvoyÃƒÂ©
> > > :* mercredi 23 dÃƒÂ©cembre 2015 22:31 *Ãƒâ‚¬ :*
> > > UHFSDR@yahoogroups.com *Objet :* [UHFSDR] Si570 European sources
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> > > Anyone know where in Europe the LVPECL or LVDS versions of the
> Si570
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2105. Re: [UHFSDR] Si570 European sources

Yahoo group: UHFSDR
Date: 2015-12-25 22:17:36 UTC
From: Stephen Farthing
Topic: 2092 Message: 2105

Hi Sid,

No problem. As I recall Jan had a lot of trouble getting Si Labs to supply him at the start, when we were multibanding softrocks which must have been almost ten years ago.

Regards,

Steve

On Friday, 25 December 2015, Sid Boyce sboyce@... [UHFSDR] <
UHFSDR@yahoogroups.com> wrote:

> Hi Steve,
> As I pointed out to Marc, only the si570A samples from SiLabs were a
> problem and I think the the free samples were devices not meeting the spec.
>
> Neither the free C samples nor the bought full spec'd A devices have
> ever failed.
> 73 ... Sid.
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> On 25/12/15 21:43, Stephen Farthing squirrox@... <javascript:;>
> [UHFSDR] wrote:
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> > Guys,Â
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> >
> > I have known Jan for 20 plus years and occasionally help out beta
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> > I have soldered Si570s many times, removed them from boards and reused
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> > On Friday, 25 December 2015, Marc OLANIE Marc.olanie@...
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> > Hi Sid
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> > I feel sorry, still my rotten English :-(
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> > high enough. That means at least a group-buy of 10 people I think,
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> > All the devices I bought from SDR-Kit have been fully functional
> > (and still are... I have a certain talent to transform ICs in blue
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> > 73' and season's greatings :- D
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> > Marc f6itu
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> > -----Message d'origine-----
> > DeÂ : UHFSDR@yahoogroups.com <javascript:;> [mailto:
> UHFSDR@yahoogroups.com <javascript:;>]
> > EnvoyÃ©Â : vendredi 25 dÃ©cembre 2015 16:35
> > Ã€Â : UHFSDR@yahoogroups.com <javascript:;>
> > ObjetÂ : Re: [UHFSDR] Si570 European sources
> >
> > Hi Marc,
> > I had bad experiences with the Silabs samples.
> > Both were faulty - one died after a month and the second was DOA.
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> > The first one that worked was one donated by George Boudreau.
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> > On 25/12/15 06:05, Marc OLANIE Marc.olanie@...
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2106. RE: [UHFSDR] Si570 European sources

Yahoo group: UHFSDR
Date: 2015-12-26 07:16:16 UTC
From: Marc OLANIE
Topic: 2092 Message: 2106

Hi

At least, I understood the confusion. My fault

When I was mentioning the “A” letter, it was the technology (cmos, ecl etc) / temperature class/frequency range suffix. When Art began to ship his first UHFSDR kits, all oscillators where AAA grade component (LVPECS, 50 ppm, 1.4 gigs), bought directly to Silabs (no sample).

Marc

De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
Envoyé : vendredi 25 décembre 2015 23:18
À : UHFSDR@yahoogroups.com
Objet : Re: [UHFSDR] Si570 European sources

Hi Sid,

No problem. As I recall Jan had a lot of trouble getting Si Labs to supply him at the start, when we were multibanding softrocks which must have been almost ten years ago.

Regards,

Steve

On Friday, 25 December 2015, Sid Boyce sboyce@blueyonder.co.uk<mailto:sboyce@blueyonder.co.uk> [UHFSDR] <UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>> wrote:
Hi Steve,
As I pointed out to Marc, only the si570A samples from SiLabs were a problem and I think the the free samples were devices not meeting the spec.

Neither the free C samples nor the bought full spec'd A devices have ever failed.
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> Guys,Â
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> I have known Jan for 20 plus years and occasionally help out beta
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> quantities of AAA grade Silab components directly from the
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Yahoo Groups Links

2107. Free Si570's

Yahoo group: UHFSDR
Date: 2015-12-29 23:25:46 UTC
From: dave@...
Topic: 2107 Message: 2107

I checked the SiLabs website earlier and found that they are now offering free samples of the Si570. You get 2 samples of each part number. I ordered 2 grade A LVPECL and 2 grade B LVPECL. I am interested in seeing if the 810 MHz can be raised closer to 900 to permit use of 70cm.
I also checked the online prices for ordering and had a pleasant shock. The grade A was $105+ each, they are now $46.65. Digikey also has a limited selection.

Dave - WB6DHW
<http://wb6dhw.com>

2108. Re: [UHFSDR] Free Si570's

Yahoo group: UHFSDR
Date: 2015-12-29 23:40:29 UTC
From: Jim Sanford
Topic: 2107 Message: 2108

Dave:
Where on their site do you get samples? I found data sheets, etc. but
no opportunity for samples.
Thanks,
Jim
wb4gcs@...

On 12/29/2015 6:25 PM, dave@... [UHFSDR] wrote:
>
> I checked the SiLabs website earlier and found that they are now
> offering free samples of the Si570. You get 2 samples of each part
> number. I ordered 2 grade A LVPECL and 2 grade B LVPECL. I am
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> Dave - WB6DHW
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>
>

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2109. Re: [UHFSDR] Free Si570's

Yahoo group: UHFSDR
Date: 2015-12-29 23:46:49 UTC
From: Dave
Topic: 2107 Message: 2109

Jim:
The Si570 configuration page is at
<http://www.silabs.com/products/clocksoscillators/pages/oscillator-part-configure.aspx?PartNumber=Si570>
Once you fill in your specifications and enter your name, address, etc, you will see buttons for "sample and "online order". If you hit the "sample" button, you get 2 free samples. If you hit the "online order" button, you can order any quantity and pay for them. Note you do have to have pop ups enabled to get to the cart page and check out.

Dave - WB6DHW
<http://wb6dhw.com>

On 12/29/2015 3:40 PM, Jim Sanford wb4gcs@... [UHFSDR] wrote:
>
> Dave:
> Where on their site do you get samples? I found data sheets, etc. but
> no opportunity for samples.
> Thanks,
> Jim
> wb4gcs@...
>
>
> On 12/29/2015 6:25 PM, dave@... [UHFSDR] wrote:
>>
>> I checked the SiLabs website earlier and found that they are now
>> offering free samples of the Si570. You get 2 samples of each part
>> number. I ordered 2 grade A LVPECL and 2 grade B LVPECL. I am
>> interested in seeing if the 810 MHz can be raised closer to 900 to
>> permit use of 70cm.
>>
>> I also checked the online prices for ordering and had a pleasant
>> shock. The grade A was $105+ each, they are now $46.65. Digikey
>> also has a limited selection.
>>
>>
>> Dave - WB6DHW
>>
>> <http://wb6dhw.com>
>>
>
>
>
> ---
> Avast logo <https://www.avast.com/antivirus>

>
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> www.avast.com <https://www.avast.com/antivirus>
>
>
>

2110. Re: [UHFSDR] Free Si570's

Yahoo group: UHFSDR
Date: 2015-12-29 23:53:03 UTC
From: Jim Sanford
Topic: 2107 Message: 2110

Thanks!!

On 12/29/2015 6:46 PM, Dave dave@... [UHFSDR] wrote:
>
> Jim:
> The Si570 configuration page is at
> <http://www.silabs.com/products/clocksoscillators/pages/oscillator-part-configure.aspx?PartNumber=Si570>
> Once you fill in your specifications and enter your name, address,
> etc, you will see buttons for "sample and "online order". If you hit
> the "sample" button, you get 2 free samples. If you hit the "online
> order" button, you can order any quantity and pay for them. Note you
> do have to have pop ups enabled to get to the cart page and check out.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 12/29/2015 3:40 PM, Jim Sanford wb4gcs@... [UHFSDR] wrote:
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>> Dave:
>> Where on their site do you get samples? I found data sheets, etc.
>> but no opportunity for samples.
>> Thanks,
>> Jim
>> wb4gcs@...
>>
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>> On 12/29/2015 6:25 PM, dave@... [UHFSDR] wrote:
>>>
>>> I checked the SiLabs website earlier and found that they are now
>>> offering free samples of the Si570. You get 2 samples of each part
>>> number. I ordered 2 grade A LVPECL and 2 grade B LVPECL. I am
>>> interested in seeing if the 810 MHz can be raised closer to 900 to
>>> permit use of 70cm.
>>>
>>> I also checked the online prices for ordering and had a pleasant
>>> shock. The grade A was $105+ each, they are now $46.65. Digikey
>>> also has a limited selection.
>>>
>>>
>>> Dave - WB6DHW
>>>
>>> <http://wb6dhw.com>
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>>

>>
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2111. RE: [UHFSDR] Free Si570's

Yahoo group: UHFSDR
Date: 2015-12-30 00:12:54 UTC
From: MIKE DURKIN
Topic: 2107 Message: 2111

damn ... 46$ for a grade A

iv recently found out that the Hughes net internet sat dishes use a 900Mhz-2.1Ghz Lo ... for 10.7 to 12.75Ghz (with switched 9.75 and 10.6Ghz oscillator) ...

Almost an easy get on 10.695 if you have a BPF for 10.695. Use the UHFSDR on its highest freq or its 3rd harmonic (not sure yet) ...

To: UHFSDR@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Tue, 29 Dec 2015 15:25:46 -0800
Subject: [UHFSDR] Free Si570's

I checked the SiLabs website earlier and found that they are now offering free samples of the Si570. You get 2 samples of each part number. I ordered 2 grade A LVPECL and 2 grade B LVPECL. I am interested in seeing if the 810 MHz can be raised closer to 900 to permit use of 70cm.
I also checked the online prices for ordering and had a pleasant shock. The grade A was $105+ each, they are now $46.65. Digikey also has a limited selection.

Dave - WB6DHW
<http://wb6dhw.com>

2112. Re: [UHFSDR] Free Si570's

Yahoo group: UHFSDR
Date: 2015-12-30 00:58:17 UTC
From: Kees & Sandy
Topic: 2107 Message: 2112
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2113. RE: Looking for ~50W to 100W low pass filters

Yahoo group: UHFSDR
Date: 2016-01-02 16:53:44 UTC
From: MIKE DURKIN
Topic: 2072 Message: 2113

Glen, did this go direct to you ?

It should of been to the group, worse ... i dong know which group you were part of ... sorry

Its for VHF/UHF ....

I can make one for 1.25M so far .. but 70cm has eluded me ....

I have an ARRL and antenna book from 1995 .... don't remember there being values for 70cm lowpass filter ...

Its been so long that iv even lost the CD that came with it .... and hte hard drive that its copy was on crashed SOOOOMMMMMEEEE time ago ... lol.

but anyways .... i have a lowpass for 2M, need to get parts for 1.25M and looking for part values for 70cm.

I was going to make a lowpass with PCB pads for 70cm, but all the PCB's material i have are lossy at those freq and power level.

Date: Sat, 2 Jan 2016 09:53:22 -0600
Subject: Re: Looking for ~50W to 100W low pass filters
From: greidone@gmail.com
To: Patriot121@...

I don't know what you are trying to filter or why, but a low pass filter for RF is nothing more than some caps and coils you can wind yourself. All of it in closed in a box. Any ARRL handbook has instructions for building them.
Example attached.

grK5FXGLEN REIDAustin
“When we lack the will to see things as they really are, there is nothing so mystifying as the obvious.” - Irving Kristol

2114. Quisk and UHFSDR

Yahoo group: UHFSDR
Date: 2016-01-31 18:58:22 UTC
From: Jim Sanford
Topic: 2114 Message: 2114

Quisk:
Has anybody successfully used Quisk (either Winders or Linux) with
UHFSDR and USB2SDR combination?
Any advice??

Thanks & 73,
Jim
wb4gcs@...

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2115. Re: [UHFSDR] Free Si570's

Yahoo group: UHFSDR
Date: 2016-01-31 19:04:55 UTC
From: Jim Sanford
Topic: 2107 Message: 2115

Dave:
Was just notified that they shipped. Will be fun!
Thank s & 73,
Jim
wb4gcs@...

On 12/29/2015 6:46 PM, Dave dave@... [UHFSDR] wrote:
>
> Jim:
> The Si570 configuration page is at
> <http://www.silabs.com/products/clocksoscillators/pages/oscillator-part-configure.aspx?P
artNumber=Si570>
> Once you fill in your specifications and enter your name, address,
> etc, you will see buttons for "sample and "online order". If you hit
> the "sample" button, you get 2 free samples. If you hit the "online
> order" button, you can order any quantity and pay for them. Note you
> do have to have pop ups enabled to get to the cart page and check out.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 12/29/2015 3:40 PM, Jim Sanford wb4gcs@... [UHFSDR] wrote:
>>
>> Dave:
>> Where on their site do you get samples? I found data sheets, etc.
>> but no opportunity for samples.
>> Thanks,
>> Jim
>> wb4gcs@...
>>
>>
>> On 12/29/2015 6:25 PM, dave@... [UHFSDR] wrote:
>>>
>>> I checked the SiLabs website earlier and found that they are now
>>> offering free samples of the Si570. You get 2 samples of each part
>>> number. I ordered 2 grade A LVPECL and 2 grade B LVPECL. I am
>>> interested in seeing if the 810 MHz can be raised closer to 900 to
>>> permit use of 70cm.
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>>> I also checked the online prices for ordering and had a pleasant
>>> shock. The grade A was $105+ each, they are now $46.65. Digikey
>>> also has a limited selection.
>>>
>>>
>>> Dave - WB6DHW

>>>
>>> <http://wb6dhw.com>
>>>
>>
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>> ----------
>> Avast logo <https://www.avast.com/antivirus>
>>
>> This email has been checked for viruses by Avast antivirus software.
>> www.avast.com <https://www.avast.com/antivirus>
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https://www.avast.com/antivirus

2116. RE: [UHFSDR] Quisk and UHFSDR

Yahoo group: UHFSDR
Date: 2016-01-31 20:25:57 UTC
From: MIKE DURKIN
Topic: 2114 Message: 2116

I dont have a usb2sdr .... but i do regularly use Quisk with my UHFSDR under Ubuntu.

Hf, UHF and VHF ....

To: UHFSDR@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Sun, 31 Jan 2016 13:58:22 -0500
Subject: [UHFSDR] Quisk and UHFSDR

Quisk:

Has anybody successfully used Quisk (either Winders or Linux) with

UHFSDR and USB2SDR combination?

Any advice??

Thanks & 73,

Jim

wb4gcs@...

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https://www.avast.com/antivirus

2117. Re: [UHFSDR] Quisk and UHFSDR

Yahoo group: UHFSDR
Date: 2016-01-31 21:23:02 UTC
From: Jim Sanford
Topic: 2114 Message: 2117

Thanks!!

On 1/31/2016 3:25 PM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>
> I dont have a usb2sdr .... but i do regularly use Quisk with my UHFSDR
> under Ubuntu.
>
> Hf, UHF and VHF ....
>
> ---
> To: UHFSDR@yahoogroups.com
> From: UHFSDR@yahoogroups.com
> Date: Sun, 31 Jan 2016 13:58:22 -0500
> Subject: [UHFSDR] Quisk and UHFSDR
>
> Quisk:
> Has anybody successfully used Quisk (either Winders or Linux) with
> UHFSDR and USB2SDR combination?
> Any advice??
>
> Thanks & 73,
> Jim
> wb4gcs@...
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2118. Re: [UHFSDR] Quisk and UHFSDR

Yahoo group: UHFSDR
Date: 2016-02-01 11:23:49 UTC
From: Sid Boyce
Topic: 2114 Message: 2118

```
Same as Mike.
Where UHFSDR differs from softrock is the divide by 2 instead of by 4.
This script needs to be run once. It sets up per-band divisor.
I don't know if USB2SDR needs it.
---------------------------------- CUT
----------------------------------------
#!/bin/sh
usbsoftrock set si570_multiplier 0 0.5
usbsoftrock set si570_multiplier 1 0.5
usbsoftrock set si570_multiplier 2 0.5
usbsoftrock set si570_multiplier 3 0.5
usbsoftrock set si570_multiplier 4 0.5
usbsoftrock set si570_multiplier 5 0.5
usbsoftrock set si570_multiplier 6 0.5
usbsoftrock set si570_multiplier 7 0.5
usbsoftrock set si570_multiplier 8 0.5
------------------------------ CUT ------------------------------------------
73 ... Sid.

On 31/01/16 21:23, Jim Sanford wb4gcs@... [UHFSDR] wrote:
>
> Thanks!!
>
>
> On 1/31/2016 3:25 PM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>>
>> I dont have a usb2sdr .... but i do regularly use Quisk with my
>> UHFSDR under Ubuntu.
>>
>> Hf, UHF and VHF ....
>>
>> ---------------------------------------------------------------------------
>> To: UHFSDR@yahoogroups.com
>> From: UHFSDR@yahoogroups.com
>> Date: Sun, 31 Jan 2016 13:58:22 -0500
>> Subject: [UHFSDR] Quisk and UHFSDR
>>
>> Quisk:
>> Has anybody successfully used Quisk (either Winders or Linux) with
>> UHFSDR and USB2SDR combination?
>> Any advice??
>>
>> Thanks & 73,
>> Jim
>> wb4gcs@...
```

>>
>> ---
>> This email has been checked for viruses by Avast antivirus software.
>> https://www.avast.com/antivirus
>>
>>
>
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> ----------
> Avast logo <https://www.avast.com/antivirus>
>
> This email has been checked for viruses by Avast antivirus software.
> www.avast.com <https://www.avast.com/antivirus>
>
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

2119. Si570

Yahoo group: UHFSDR
Date: 2016-02-02 09:37:39 UTC
From: dombaines@...
Topic: 170 Message: 2119

Returned to this after a while and find in the parts bag 2 Si570 marked BAB000107DG (got two UHFSDR to build)

Not sure but I THINK from notes these are...

LVDS 50ppm 10-810MHz startup 107MHz versions

P32 of the Si570 spec sheet seems to confirm this.

An obvious question could these be used in the UHFSDR as opposed to the ABA000514G and what differences might I expect?

I want to use on 432MHz/70cm so not 100% these could be used.

Dom

2120. Re: [UHFSDR] Si570

Yahoo group: UHFSDR
Date: 2016-02-02 09:49:37 UTC
From: Dave
Topic: 170 Message: 2120

Dom:
You are almost all correct. I looked up the part number on the Silab site. The startup freq is 10 MHz. The LVDS will work on the UHFSDR. The I/Q generator sheet has the resister values needed in the interface circuit between the Si570 and the flip flops. If the freq. range only goes to 810 MHz, then the UHFSDR will only go to 405 MHz. But, I think someone else has got a "B" speed device to go high enough to cover 70 cm. Let me know the result when you get it going. With 10 MHz startup, you should hear WWV at 5 MHz without any programming.
Silabs is now offering free samples of the Si570. I got 2 of the "A" grade LVPECL output last week.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/2/2016 1:37 AM, dombaines@... [UHFSDR] wrote:
>
> Returned to this after a while and find in the parts bag 2 Si570
> marked BAB000107DG (got two UHFSDR to build)
>
>
> Not sure but I THINK from notes these are...
>
>
> LVDS 50ppm 10-810MHz startup 107MHz versions
>
>
> P32 of the Si570 spec sheet seems to confirm this.
>
>
> An obvious question could these be used in the UHFSDR as opposed to
> the ABA000514G and what differences might I expect?
>
>
> I want to use on 432MHz/70cm so not 100% these could be used.
>
>
> Dom
>
>

2121. Re: Si570

Yahoo group: UHFSDR
Date: 2016-02-02 11:41:26 UTC
From: dombaines@...
Topic: 170 Message: 2121

Tnx Dave, I am over in UK so I think hearing WWV might be a push.

No idea where the original Si570 went... ho hum.

In the meantime I have couple 570ABA samples that might turn up in a while from Si that should work otherwise

72
Dom
M1KTA

2122. RE: [UHFSDR] Si570

Yahoo group: UHFSDR
Date: 2016-02-02 16:13:36 UTC
From: MIKE DURKIN
Topic: 170 Message: 2122

Dont bother with the clas B Si570 .. get a Class A from SisLabs ... they are free sampled again.

You could cover with out gaps till 472.5Mhz .... then gap till 485Mhz to 567Mhz, then another gap till 606.5Mhz to 708.75Mhz ...

Which you could use with a transverter to 10Ghz ... but on a 5th harmonic and a HughesNet satellite setup --- i think. I have the equipment, just not tried yet ---- Kinda slow in that regards and if the First amateur radio in geosynchronous orbit gets put up .. you know ill get it finished !!!!

<http://forums.qrz.com/index.php?threads/first-amateur-radio-in-geosynchronous-orbit.505312/page-5>
if you have not seen this ...

To: UHFSDR@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Tue, 2 Feb 2016 01:37:39 -0800
Subject: [UHFSDR] Si570

Returned to this after a while and find in the parts bag 2 Si570 marked BAB000107DG (got two UHFSDR to build)

Not sure but I THINK from notes these are...

LVDS 50ppm 10-810MHz startup 107MHz versions

P32 of the Si570 spec sheet seems to confirm this.

An obvious question could these be used in the UHFSDR as opposed to the ABA000514G and what differences might I expect?

I want to use on 432MHz/70cm so not 100% these could be used.

Dom

2123. Re: [UHFSDR] Quisk and UHFSDR

Yahoo group: UHFSDR
Date: 2016-02-02 17:37:19 UTC
From: Jean-Paul Louis
Topic: 2114 Message: 2123

Hi Sid,

I was looking at your script, and wondered why do you have lines from 0 to 8 (9lines), instead of 0-7 (8 lines).

Is there a specific reason for the last line?

Just curious,
Jean-Paul
N1JPL

> On Feb 1, 2016, at 6:23 AM, Sid Boyce sboyce@... [UHFSDR] <UHFSDR@yahoogroups.com> wrote:
>
> Same as Mike.
> Where UHFSDR differs from softrock is the divide by 2 instead of by 4.
> This script needs to be run once. It sets up per-band divisor.
> I don't know if USB2SDR needs it.
> ---------- CUT
> ----------
> #!/bin/sh
> usbsoftrock set si570_multiplier 0 0.5
> usbsoftrock set si570_multiplier 1 0.5
> usbsoftrock set si570_multiplier 2 0.5
> usbsoftrock set si570_multiplier 3 0.5
> usbsoftrock set si570_multiplier 4 0.5
> usbsoftrock set si570_multiplier 5 0.5
> usbsoftrock set si570_multiplier 6 0.5
> usbsoftrock set si570_multiplier 7 0.5
> usbsoftrock set si570_multiplier 8 0.5
> ---------- CUT ----------
> 73 ... Sid.
>
> On 31/01/16 21:23, Jim Sanford wb4gcs@... [UHFSDR] wrote:
>>
>> Thanks!!
>>
>>
>> On 1/31/2016 3:25 PM, MIKE DURKIN Patriot121@msn.com [UHFSDR] wrote:
>>>
>>> I dont have a usb2sdr .... but i do regularly use Quisk with my
>>> UHFSDR under Ubuntu.
>>>
>>> Hf, UHF and VHF ....
>>>
>>> ----------
>>> To: UHFSDR@yahoogroups.com

>>> From: UHFSDR@yahoogroups.com
>>> Date: Sun, 31 Jan 2016 13:58:22 -0500
>>> Subject: [UHFSDR] Quisk and UHFSDR
>>>
>>> Quisk:
>>> Has anybody successfully used Quisk (either Winders or Linux) with
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>>> Any advice??
>>>
>>> Thanks & 73,
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> --
> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
> Senior Staff Specialist, Cricket Coach
> Microsoft Windows Free Zone - Linux used for all Computing Tasks
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2124. Re: [UHFSDR] Quisk and UHFSDR

Yahoo group: UHFSDR
Date: 2016-02-03 01:54:48 UTC
From: Sid Boyce
Topic: 2114 Message: 2124

This was done in the heat of battle when Alex and I were trying to sort
out the multipliers needed for the UHFSDR.

With the default divide by 4 we got some strange frequencies.

Alex supplied new SDR-Widget firmware which took divide by 4 but
interpreted it as divide by 2 to send to the si570.
Then we discovered per-band multipliers were needed to stop bands
defaulting to divide by 4.

As there were no pre-selector filters installed, it didn't matter.
73 ... Sid.

On 02/02/16 17:37, Jean-Paul Louis louijp@... [UHFSDR] wrote:
> Hi Sid,
>
> I was looking at your script, and wondered why do you have lines from 0 to 8 (9lines),
> instead of 0-7 (8 lines).
>
> Is there a specific reason for the last line?
>
> Just curious,
> Jean-Paul
> N1JPL
>
>
>> On Feb 1, 2016, at 6:23 AM, Sid Boyce sboyce@... [UHFSDR] <UHFSDR@yahoogroups.com>
wrote:
>>
>> Same as Mike.
>> Where UHFSDR differs from softrock is the divide by 2 instead of by 4.
>> This script needs to be run once. It sets up per-band divisor.
>> I don't know if USB2SDR needs it.
>> ---------------------------------- CUT
>> --
>> #!/bin/sh
>> usbsoftrock set si570_multiplier 0 0.5
>> usbsoftrock set si570_multiplier 1 0.5
>> usbsoftrock set si570_multiplier 2 0.5
>> usbsoftrock set si570_multiplier 3 0.5
>> usbsoftrock set si570_multiplier 4 0.5
>> usbsoftrock set si570_multiplier 5 0.5
>> usbsoftrock set si570_multiplier 6 0.5
>> usbsoftrock set si570_multiplier 7 0.5
>> usbsoftrock set si570_multiplier 8 0.5
>> ------------------------------ CUT --

>> 73 ... Sid.
>>
>> On 31/01/16 21:23, Jim Sanford wb4gcs@... [UHFSDR] wrote:
>>> Thanks!!
>>>
>>>
>>> On 1/31/2016 3:25 PM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>>>> I dont have a usb2sdr .... but i do regularly use Quisk with my
>>>> UHFSDR under Ubuntu.
>>>>
>>>> Hf, UHF and VHF ....
>>>>
>>>> ---
>>>> To: UHFSDR@yahoogroups.com
>>>> From: UHFSDR@yahoogroups.com
>>>> Date: Sun, 31 Jan 2016 13:58:22 -0500
>>>> Subject: [UHFSDR] Quisk and UHFSDR
>>>>
>>>> Quisk:
>>>> Has anybody successfully used Quisk (either Winders or Linux) with
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>>>> Any advice??
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>>>> Thanks & 73,
>>>> Jim
>>>> wb4gcs@...
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>>>> ---
>>>> This email has been checked for viruses by Avast antivirus software.
>>>> https://www.avast.com/antivirus
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>>> Avast logo <https://www.avast.com/antivirus>
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>>> This email has been checked for viruses by Avast antivirus software.
>>> www.avast.com <https://www.avast.com/antivirus>
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>> --
>> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
>> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
>> Senior Staff Specialist, Cricket Coach
>> Microsoft Windows Free Zone - Linux used for all Computing Tasks
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Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

2125. Re: [UHFSDR] Quisk and UHFSDR

Yahoo group: UHFSDR
Date: 2016-02-03 02:44:25 UTC
From: Jean-Paul Louis
Topic: 2114 Message: 2125

Thanks, Sid.

That make sense. It is too bad that the SDR-WIdget kind of faded away.
I miss that time.

73 de Jean-Paul
N1JPL

> On Feb 2, 2016, at 8:54 PM, Sid Boyce sboyce@... [UHFSDR] <UHFSDR@yahoogroups.com> wrote:
>
> This was done in the heat of battle when Alex and I were trying to sort
> out the multipliers needed for the UHFSDR.
>
> With the default divide by 4 we got some strange frequencies.
>
> Alex supplied new SDR-Widget firmware which took divide by 4 but
> interpreted it as divide by 2 to send to the si570.
> Then we discovered per-band multipliers were needed to stop bands
> defaulting to divide by 4.
>
> As there were no pre-selector filters installed, it didn't matter.
> 73 ... Sid.
>
> On 02/02/16 17:37, Jean-Paul Louis louijp@... [UHFSDR] wrote:
>> Hi Sid,
>>
>> I was looking at your script, and wondered why do you have lines from 0 to 8 (9lines),
>> instead of 0-7 (8 lines).
>>
>> Is there a specific reason for the last line?
>>
>> Just curious,
>> Jean-Paul
>> N1JPL
>>
>>
>>> On Feb 1, 2016, at 6:23 AM, Sid Boyce sboyce@... [UHFSDR] <UHFSDR@yahoogroups.com>
wrote:
>>>
>>> Same as Mike.
>>> Where UHFSDR differs from softrock is the divide by 2 instead of by 4.
>>> This script needs to be run once. It sets up per-band divisor.
>>> I don't know if USB2SDR needs it.
>>> ---------------------------------- CUT
>>> --
>>> #!/bin/sh

```
>>> usbsoftrock set si570_multiplier 0 0.5
>>> usbsoftrock set si570_multiplier 1 0.5
>>> usbsoftrock set si570_multiplier 2 0.5
>>> usbsoftrock set si570_multiplier 3 0.5
>>> usbsoftrock set si570_multiplier 4 0.5
>>> usbsoftrock set si570_multiplier 5 0.5
>>> usbsoftrock set si570_multiplier 6 0.5
>>> usbsoftrock set si570_multiplier 7 0.5
>>> usbsoftrock set si570_multiplier 8 0.5
>>> ------------------------------ CUT ----------------------------------------
>>> 73 ... Sid.
>>>
>>> On 31/01/16 21:23, Jim Sanford wb4gcs@... [UHFSDR] wrote:
>>>> Thanks!!
>>>>
>>>>
>>>> On 1/31/2016 3:25 PM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>>>>> I dont have a usb2sdr .... but i do regularly use Quisk with my
>>>>> UHFSDR under Ubuntu.
>>>>>
>>>>> Hf, UHF and VHF ....
>>>>>
>>>>> ---------------------------------------------------------------------------
>>>>> To: UHFSDR@yahoogroups.com
>>>>> From: UHFSDR@yahoogroups.com
>>>>> Date: Sun, 31 Jan 2016 13:58:22 -0500
>>>>> Subject: [UHFSDR] Quisk and UHFSDR
>>>>>
>>>>> Quisk:
>>>>> Has anybody successfully used Quisk (either Winders or Linux) with
>>>>> UHFSDR and USB2SDR combination?
>>>>> Any advice??
>>>>>
>>>>> Thanks & 73,
>>>>> Jim
>>>>> wb4gcs@...
>>>>>
>>>>> ---
>>>>> This email has been checked for viruses by Avast antivirus software.
>>>>> https://www.avast.com/antivirus
>>>>>
>>>>>
>>>>>
>>>>>
>>>> ---------------------------------------------------------------------------
>>>> Avast logo <https://www.avast.com/antivirus>
>>>>
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>>>> www.avast.com <https://www.avast.com/antivirus>
>>>>
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>>>
>>> --
>>> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
>>> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
>>> Senior Staff Specialist, Cricket Coach
>>> Microsoft Windows Free Zone - Linux used for all Computing Tasks
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2126. Re: [UHFSDR] Quisk and UHFSDR

Yahoo group: UHFSDR
Date: 2016-02-03 12:32:11 UTC
From: Sid Boyce
Topic: 2114 Message: 2126

Hi Jean-Paul,
Hopes were high to begin with but the typical Softrock guys never really
got interested and still aren't interested in anything that KB9YIG
doesn't supply.

Around the middle of last year Tony asked for suggestions on what the
Softrock group would like next. I suggested he contact Steve Haynal
about Hermes-Lite as Steve really didn't want to get into the business
of kit production - he still has a day job.
As usual there was no response to my suggestion - the only one as far as
I can remember, so Softrock is still the only product.

The SR63ng, the Mobo and the SDR-Widget all suffered the same fate.
73 ... Sid.

On 03/02/16 02:44, Jean-Paul Louis louijp@... [UHFSDR] wrote:
> Thanks, Sid.
>
> That make sense. It is too bad that the SDR-WIdget kind of faded away.
> I miss that time.
>
> 73 de Jean-Paul
> N1JPL
>
>> On Feb 2, 2016, at 8:54 PM, Sid Boyce sboyce@... [UHFSDR] <UHFSDR@yahoogroups.com>
wrote:
>>
>> This was done in the heat of battle when Alex and I were trying to sort
>> out the multipliers needed for the UHFSDR.
>>
>> With the default divide by 4 we got some strange frequencies.
>>
>> Alex supplied new SDR-Widget firmware which took divide by 4 but
>> interpreted it as divide by 2 to send to the si570.
>> Then we discovered per-band multipliers were needed to stop bands
>> defaulting to divide by 4.
>>
>> As there were no pre-selector filters installed, it didn't matter.
>> 73 ... Sid.
>>
>> On 02/02/16 17:37, Jean-Paul Louis louijp@... [UHFSDR] wrote:
>>> Hi Sid,
>>>
>>> I was looking at your script, and wondered why do you have lines from 0 to 8 (9lines),
>>> instead of 0-7 (8 lines).
>>>

>>> Is there a specific reason for the last line?
>>>
>>> Just curious,
>>> Jean-Paul
>>> N1JPL
>>>
>>>
>>>> On Feb 1, 2016, at 6:23 AM, Sid Boyce sboyce@... [UHFSDR] <UHFSDR@yahoogroups.com>
wrote:
>>>>
>>>> Same as Mike.
>>>> Where UHFSDR differs from softrock is the divide by 2 instead of by 4.
>>>> This script needs to be run once. It sets up per-band divisor.
>>>> I don't know if USB2SDR needs it.
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>>>> #!/bin/sh
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>>>> usbsoftrock set si570_multiplier 1 0.5
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>>>> usbsoftrock set si570_multiplier 3 0.5
>>>> usbsoftrock set si570_multiplier 4 0.5
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>>>> usbsoftrock set si570_multiplier 6 0.5
>>>> usbsoftrock set si570_multiplier 7 0.5
>>>> usbsoftrock set si570_multiplier 8 0.5
>>>> ---------- CUT ----------
>>>> 73 ... Sid.
>>>>
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>>>>> Thanks!!
>>>>>
>>>>>
>>>>> On 1/31/2016 3:25 PM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>>>>>> I dont have a usb2sdr .... but i do regularly use Quisk with my
>>>>>> UHFSDR under Ubuntu.
>>>>>>
>>>>>> Hf, UHF and VHF ....
>>>>>>
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>>>>>> To: UHFSDR@yahoogroups.com
>>>>>> From: UHFSDR@yahoogroups.com
>>>>>> Date: Sun, 31 Jan 2016 13:58:22 -0500
>>>>>> Subject: [UHFSDR] Quisk and UHFSDR
>>>>>>
>>>>>> Quisk:
>>>>>> Has anybody successfully used Quisk (either Winders or Linux) with
>>>>>> UHFSDR and USB2SDR combination?
>>>>>> Any advice??
>>>>>>

>>>>>> Thanks & 73,
>>>>>> Jim
>>>>>> wb4gcs@...
>>>>>>
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>>>>>> This email has been checked for viruses by Avast antivirus software.
>>>>>> https://www.avast.com/antivirus
>>>>>>
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>>>>> ----------
>>>>> Avast logo <https://www.avast.com/antivirus>
>>>>>
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>>>>> www.avast.com <https://www.avast.com/antivirus>
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>>>> --
>>>> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
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>>>> Senior Staff Specialist, Cricket Coach
>>>> Microsoft Windows Free Zone - Linux used for all Computing Tasks
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Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
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```

2127. Re: [UHFSDR] Quisk and UHFSDR

Yahoo group: UHFSDR
Date: 2016-02-07 02:10:17 UTC
From: artus1947@...
Topic: 2114 Message: 2127

Sid et al,

I find it interesting to see where things are going. I have also did a progression;

A couple of Tony's kits
Mobo/Widget
SDR2GO
STM32SDR
and now Hermes-Lite

Although I contributed to the code a bit on the STM32SDR, I haven't dug into the Hermes-Lite coding for lack of skills, but perhaps someday. For now, I am content with hardware fiddling. Dave Miller recently shared some of his thoughts on the future of the STM32-SDR project in that group. I believe he sees the future also in the Hermes-Lite fork and I certainly agree based on the early performance of my rig. Currently I am in a side channel working on a Scotty's Spectrum Build so I can fiddle with hardware in a more disciplined way. Honestly, other than the early thrills of radio, circa 1961, there isn't a more interesting time to build stuff.

73,
Jack (W0FNQ)

2128. UHFSDR Spares

Yahoo group: UHFSDR
Date: 2016-02-07 19:49:43 UTC
From: dombaines@...
Topic: 2128 Message: 2128

Hi,

I seem to have almost doubled up on all components after checking Farnell and Digikey orders as building mine up. Anyone looking for a set of parts? This does not include the PCB or the components in the minikit (see the fies for the Farnell BOM)

The weight should be almost nothing so a small jiffy bag at most.

I am in UK so probably better if in EU but send to US and elsewhere can be done too.

Costs... what the parts cost me plus the postage.

72
Dom
M1KTA

2129. Re: UHFSDR Spares

Yahoo group: UHFSDR
Date: 2016-02-08 14:58:20 UTC
From: g.suggate@...
Topic: 2128 Message: 2129

Hi Dom,

If still available I'm interested. Please email me direct with price to

geoff@gsuggate.plus.com

73

Geoff G3NPI

2130. WWV time decode

Yahoo group: UHFSDR
Date: 2016-02-09 05:51:21 UTC
From: MIKE DURKIN
Topic: 2130 Message: 2130

has any one an idea of how to set PC time with ntpd using audio from WWV ?

Iv posted a few web sites that iv found with notes about how they did it .. with much left out as far as i can tell on n2adr's Quisk board.

2131. RE: [UHFSDR] Si570

Yahoo group: UHFSDR
Date: 2016-02-22 19:45:25 UTC
From: dombaines@...
Topic: 170 Message: 2131

Just arrived... got to say though, nice they have but talk about packing overkill a 12" x 8" x10" box, containing another slightly smaller box, that contained another one (I see the package bounced about in Si before being sent to me)... with a silver foil 'humidity pack' in it. I was beginning to think it was one of those kids games ... pass the parcel.

All for 2 Si570 that would fit on a postage stamp... and even that foil pack would have fit in a simple jiffy bag!

Still I have them now.

Tnx to all for the suggestion.

I'll drop Si a note to say what they were used in and how it is doing.

72

Dom
M1KTa

2132. Si570 leakage when in Tx

Yahoo group: UHFSDR
Date: 2016-02-22 20:24:04 UTC
From: MIKE DURKIN
Topic: 2132 Message: 2132

Has anyone measured their Si570 leakage when Tx'ing? on VHF anyways ?

I was using a rtl-sdr with gqrx to set my sideband suppression and my leakage on Tx was around 20db below my output ....

The sidband suppression looked better than 70db ....

I was not measuring this value during Rx .... my leakage from the UHFSDR board is only about a few db's above the local noise ..... some day ill put the top case on.

2133. Re: Si570 leakage when in Tx

Yahoo group: UHFSDR
Date: 2016-02-23 13:52:22 UTC
From: g.suggate@...
Topic: 2132 Message: 2133

Hello Mike,

I have been trying to fix the carrier leakage problem for over a year now. I seem to have replaced most bits but not the Si570. As nobody else seemed to have the same problem (carrier leakage) I thought that as I am using the USB2SDR interface, perhaps I was not getting enough drive from the USB2SDR and was going to make building a high precision amp my next job. Now it seems that will not fix it either.....

My other problem is lack of o/p on vhf (about 1 mW) which I had put down to the same lack of drive.

I had previously been using the system for a couple of years direct on 70mhz amplifying it to 150w output until
I got the report of carrier leakage. Now it sits in the corner awaiting my next move

Good luck. I will be interested to see if its a faulty Si570 or are they all like that?

73

Geoff G3NPI

2134. RE: [UHFSDR] Re: Si570 leakage when in Tx

Yahoo group: UHFSDR
Date: 2016-02-23 16:47:21 UTC
From: MIKE DURKIN
Topic: 2132 Message: 2134

Seems like you have done more testing than me ?

What are you using for a SDR program ....

What is the larger I/Q error ? we cant do much about the phase error --- unless there is a clever way to lay a piece of wire over a Q trace or I traces to effect delay ... after the I/Q transformer is the only place that i can think of as a place to load I/Q for amplitude balance ... but it will also imbalance phase too ...

Hope Dave has an idea ....

On VHF .. im getting 15mW out measured on a Tektronix 2Ghz spectrum analyser ... i used a loaded choke on the output amp "T" to improve output flatness from HF to 512Mhz. Before the change output would drop off significantly around 100mhz ....

The choke was From CoilCraft, and im fairly sure i listed the part number in previous emails to the board. Im sorry to also say that i did not try the second candidate i got from coilcraft because the first work so well -- i said "thats good enough" ---

Have you made modifications to the Rx path and Tx paths? Iv also done the Rx amp modification for Better (much) for VHF .... its almost too much gain (or probably is) with slightly reduced gain on 160M.

Iv built a VHF (2M) amp with a RA60H1317M1A module and can achieve 80W with 14.5V on the amp. If any one is wondering thats reading this --- i used a PCB form Ebay called "Power amplifier FOR interphone hand Taiwan" that states for 440Mhz in most auctions ... it needs a modification to switch PA bias on/off, else it heats up some.

To: UHFSDR@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Tue, 23 Feb 2016 05:52:22 -0800
Subject: [UHFSDR] Re: Si570 leakage when in Tx

Hello Mike,

I have been trying to fix the carrier leakage problem for over a year now. I seem to have replaced most bits but not the Si570. As nobody else seemed to have the same problem (carrier leakage) I thought that as I am using the USB2SDR interface, perhaps I was not getting enough drive from the USB2SDR and was going to make building a high precision amp my next job. Now it seems that will not fix it either.....

My other problem is lack of o/p on vhf (about 1 mW) which I had put down to the same lack of drive.

I had previously been using the system for a couple of years direct on 70mhz amplifying it to 150w output until
I got the report of carrier leakage. Now it sits in the corner awaiting my next move

Good luck. I will be interested to see if its a faulty Si570 or are they all like that?

73

Geoff G3NPI

2135. Re: [UHFSDR] Re: Si570 leakage when in Tx

Yahoo group: UHFSDR
Date: 2016-02-23 20:46:57 UTC
From: Dave
Topic: 2132 Message: 2135

Geoff and Mike:
The mixers are the largest determiners of the carrier leakage. The ADE-2 specs for LO leakage are quite good. Either one of the mixers is bad or there is a path around the mixers for the LO signal. If there is output at the correct frequency from the flip flops, then the Sii570 is OK.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/23/2016 5:52 AM, g.suggate@... [UHFSDR] wrote:

> Hello Mike,
>
> I have been trying to fix the carrier leakage problem for over a year
> now. I seem to have replaced most bits but not the Si570. As nobody
> else seemed to have the same problem (carrier leakage) I thought that
> as I am using the USB2SDR interface, perhaps I was not getting enough
> drive from the USB2SDR and was going to make building a high precision
> amp my next job. Now it seems that will not fix it either.....
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> down to the same lack of drive.
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> 70mhz amplifying it to 150w output until
> I got the report of carrier leakage. Now it sits in the corner
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>
> Good luck. I will be interested to see if its a faulty Si570 or are
> they all like that?
>
> 73
>
> Geoff G3NPI
>
>

2136. RE: [UHFSDR] Re: Si570 leakage when in Tx

Yahoo group: UHFSDR
Date: 2016-02-23 23:35:12 UTC
From: MIKE DURKIN
Topic: 2132 Message: 2136

On 2m and above ... I had to increase the amplitude error from a max of 10 to 20 and is about 14 to null image ....

Wouldn't one of the flip/flops going bad and a Mixer going bad have the same effect? -- as well as a dirty board .... mine has been uncovered for ... well, just too long.

I guess swapping flip/flops would be a straight forward test .... then the mixers, and in each case if the amplitude error goes from a -14 to a positive 14 -- of the set that was switched, one would be suspect?

Im thinking that Si570 output level has only a marginal effect on phase error and no effect on amplitude error.

Also i admit that amplitude error might also be soundcard related.....

Dave .. ummm .. well probably a better question to ask Jim (of Quisk) does the SDR program control the balance of the soundcard gain levels or only the levels calculated and sent to soundcard stream.

Im sure Sid Boyce is also reading this ... i think he has a UHFSDR too (i could be wrong) ...

To: UHFSDR@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Tue, 23 Feb 2016 12:46:57 -0800
Subject: Re: [UHFSDR] Re: Si570 leakage when in Tx

Geoff and Mike:

The mixers are the largest determiners of the carrier leakage.
The ADE-2 specs for LO leakage are quite good. Either one of the
mixers is bad or there is a path around the mixers for the LO
signal. If there is output at the correct frequency from the flip
flops, then the Sii570 is OK.

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Good luck. I will be interested to see if its a faulty Si570 or are they all like that?

73

Geoff G3NPI

2137. Re: [UHFSDR] Re: Si570 leakage when in Tx

Yahoo group: UHFSDR
Date: 2016-02-24 02:16:34 UTC
From: Dave
Topic: 2132 Message: 2137

Mike:
One of the flip flops going bad would cause the opposite sideband rejection to be 0. If one mixer had more loss then the I and Q amplitudes would be different. I would think a dirty board could provide a path around the mixer for the LO. The 2 LO pins are driven differentially rather than one gong to ground. So, each will have likely several hundred ohms resistance to ground.
You could try swapping the audio leads from the sound card to see if the amplitude goes from -14 to +14.
The amplitude of the Si570 outputs will not affect the I and Q amplitude as long as the flip flops are triggering. If the 2 Si570 outputs are not 180 degrees apart(very unlikely), then the I and Q phase would be affected. If the phase error increases with frequency, then the 2 paths are no the same. I tried hard to make the RF paths the same. There is a little difference in the audio path, but 1 degree at audio is a lot of length.
I don't know what Quisk does. But Windows(and Linux I think) have controls for each channel. Don't know if the software overrides these.
On the carrier feedthrough, does the software put the LO on the transmit frequency, or is it offset a few kilohertz as is common in receive?

Dave - WB6DHW
<http://wb6dhw.com>

On 2/23/2016 3:35 PM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>
> On 2m and above ... I had to increase the amplitude error from a max
> of 10 to 20 and is about 14 to null image ....
>
> Wouldn't one of the flip/flops going bad and a Mixer going bad have
> the same effect? -- as well as a dirty board .... mine has been
> uncovered for ... well, just too long.
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> the mixers, and in each case if the amplitude error goes from a -14 to
> a positive 14 -- of the set that was switched, one would be suspect?
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> Also i admit that amplitude error might also be soundcard related.....
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>
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> are they all like that?
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> 73

>
> Geoff G3NPI
>
>
>
>

2138. RE: [UHFSDR] Re: Si570 leakage when in Tx

Yahoo group: UHFSDR
Date: 2016-02-24 03:22:51 UTC
From: MIKE DURKIN
Topic: 2132 Message: 2138

Sounds like the most likely source is the mixers then for me .... ill try unplugging/plugging the cable from the soundcard to see if it changes the amplitude error. and also cleaning the PCB, though i remember melting the side of one of the mixers when making an mod ... seemed ok but might of been damaged.

Iv soldered the audio cables to the UHFSDR PCB .... iv also replaced the Tx capacitors the the connectors due to a failure ... i should get new to make sure they have the same values.

Software i use can move the Rx/Tx audio up to 24Khz away (limited to +/-24Khz because of soundcard) from the Lo ....

To: UHFSDR@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Tue, 23 Feb 2016 18:16:34 -0800
Subject: Re: [UHFSDR] Re: Si570 leakage when in Tx

Mike:

One of the flip flops going bad would cause the opposite sideband rejection to be 0. If one mixer had more loss then the I and Q amplitudes would be different. I would think a dirty board could provide a path around the mixer for the LO. The 2 LO pins are driven differentially rather than one gong to ground. So, each will have likely several hundred ohms resistance to ground.

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Im thinking that Si570 output level has only a marginal effect on phase error and no effect on amplitude error.

Also i admit that amplitude error might also be soundcard related.....

Dave .. ummm .. well probably a better question to ask Jim (of Quisk) does the SDR program control the balance of the soundcard gain levels or only the levels calculated and sent to soundcard stream.

Im sure Sid Boyce is also reading this ... i think he has a UHFSDR too (i could be wrong) ...

To: UHFSDR@yahoogroups.com

From: UHFSDR@yahoogroups.com

Date: Tue, 23 Feb 2016 12:46:57 -0800

Subject: Re: [UHFSDR] Re: Si570 leakage when in Tx

Geoff and Mike:

The mixers are the largest determiners of the carrier leakage. The ADE-2 specs for LO leakage are quite good. Either one of the mixers is bad or there is a path around the mixers for the LO signal. If there is output at the correct frequency from the flip flops, then the Sii570 is OK.

Dave - WB6DHW

<http://wb6dhw.com>

On 2/23/2016 5:52 AM, g.suggate@... [UHFSDR] wrote:

Hello Mike,

I have been trying to fix the carrier leakage problem for over a year now. I seem to have replaced most bits but not the Si570. As nobody else seemed to have the same problem (carrier leakage) I thought that as I am using the USB2SDR interface, perhaps I was not getting enough drive from the USB2SDR and was going to make building a high precision amp my next job. Now it seems that will not fix it either.....

My other problem is lack of o/p on vhf (about 1 mW) which I had put down to the same lack of drive.

I had previously been using the system for a couple of years direct on 70mhz amplifying it to 150w output until

I got the report of carrier leakage. Now it sits in the corner awaiting my next move

Good luck. I will be interested to see if its a faulty Si570 or are they all like that?

73

Geoff G3NPI

2139. RE: [UHFSDR] Re: Si570 leakage when in Tx

Yahoo group: UHFSDR
Date: 2016-02-24 09:37:47 UTC
From: g.suggate@...
Topic: 2132 Message: 2139

Mike and Dave,

I changed the mixers some time ago (difficult to do !), and it made no difference.

I checked the I and Q paths and they appeared correct. (Scope has packed up so can not do that again)

I did the TX mod but did not see a great difference. But my o/p is much lower than yours anyway.

I have always used a preamp combined with a bpf so had enough RX gain.

The program I use is PowerSDR-IQ v1.19.3.2.0 This is a special version developed by Christos for use
with the USB2SDR. I do not think other versions work with USB2SDR, although I have not tried.

I now have an ANAN 10 which is my current station, but I look forward to getting the UHFSDR working again
using SDR directly on VHF is still unusual and you can not beat using a homebrew rig. I used to get many compliments on the quality of the audio from the UHFSDR.

73

Geoff G3NPI

2140. Via 1620A USB Soundcard issues

Yahoo group: UHFSDR
Date: 2016-02-24 19:39:21 UTC
From: MIKE DURKIN
Topic: 2140 Message: 2140

I Hear by rescind my endorsement of any Via 1620a USB based soundcard ....

Though its fine for Rx @ 96Khz .... and cheap, but

Its output Phase error and moderate amplitude error makes it horrible for Tx ....

I thought i had developed a fault with my UHFSDR for the last 2 months .... even unhooked my DIY amps to investigate (i thought they were the problem originally)

This all might be an impedance issue that Lief has pointed to .... but im not sure ....

Leif used T pads to reduce the input to the opamps and provide a purely resistive load for the soundcard output opamps (if they had one) .... I would solely would use a precision SMD resistor for left/right channels and try that out in the future ...

After swapping back in my ole' CM106 based USB soundcard ... things went back to normal (good and stable) values for image rejection ...

2141. Re: [UHFSDR] Via 1620A USB Soundcard issues

Yahoo group: UHFSDR
Date: 2016-02-24 21:10:38 UTC
From: Dave
Topic: 2140 Message: 2141

Mike:
Good information. I was planning on using those USB soundcards for a stand alone version of the UHFSDR with a Raspberry PI replacing the computer. Want to use the PI Zero, but they have been out of stock since the first day offered in November.
On transmit, have you tried a lower rate(48KHz or 24 KHz)?
Is the old CM106 based USB card still being sold?

Dave - WB6DHW
<http://wb6dhw.com>

On 2/24/2016 11:39 AM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
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> After swapping back in my ole' CM106 based USB soundcard ... things
> went back to normal (good and stable) values for image rejection ...
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>
>
>

2142. RE: [UHFSDR] Via 1620A USB Soundcard issues

Yahoo group: UHFSDR
Date: 2016-02-24 21:38:26 UTC
From: MIKE DURKIN
Topic: 2140 Message: 2142

Yea .. the old CM106 based USB card is still found on Ebay .. thats where i got mine ....

ebay 400852410469 .. this one has a metal (aluminium) case .. it does not say it in the listing, but looks like a clone of a clone of a clone of the CM106 ....

i did get this backwards .... yes the Phase was above -19.98 (%???) but i changed the amplitude/phase allowable variance to 30 (this was in quisk) and amplitude was +23 for the Via ...

I dont know how far off the phase is ... its allowable variance did not change form 20 ...

Put the CM106 in and set phase/amplitude and its ---
phase -.014 and amplitude was +4.2 on 2M .... dont remember what it was on 440 ....

I need to bug Jim(of quisk) about +/- of the Lo and the difference in amplitude error ...

When i set the phase/amplitude and then not changing the Lo but setting Rx/Tx to the same freq that the opposite side band was ... the image rejection is not still really really good ....

My set up went from around 80db difference (in the noise floor) to 60db ... i would think as long as the Lo was not changed the image rejection should not change too ....

So i was going to ask that 2 different saved phase/ampli error for a checked freq be stored ... one for (+IF) + Lo and one for (-IF) + Lo ....

Linrad sweeps the whole +/- and records what ever the user wanted ... 12Khz 24Kz 96Khz ....

To: UHFSDR@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Wed, 24 Feb 2016 13:10:38 -0800
Subject: Re: [UHFSDR] Via 1620A USB Soundcard issues

Mike:

Good information. I was planning on using those USB soundcards
for a stand alone version of the UHFSDR with a Raspberry PI
replacing the computer. Want to use the PI Zero, but they have
been out of stock since the first day offered in November.

On transmit, have you tried a lower rate(48KHz or 24 KHz)?

Is the old CM106 based USB card still being sold?

Dave - WB6DHW

<http://wb6dhw.com>

On 2/24/2016 11:39 AM, MIKE DURKIN Patriot121@msn.com [UHFSDR] wrote:

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After swapping back in my ole' CM106 based USB soundcard ... things went back to normal (good and stable) values for image rejection ...

2143. Non sigma/delta USB sound cards

Yahoo group: UHFSDR
Date: 2016-02-25 16:28:28 UTC
From: MIKE DURKIN
Topic: 2143 Message: 2143

Hey all ....

Iv been wondering if anyone has a list of non SD (sigma/delta) USB soundcards ....

If there is not one compiled for the list .... how about we try to do so .....

Id hope that there are some that are under 100$ (ok 20$) ....

2144. RE: [UHFSDR] Non sigma/delta USB sound cards

Yahoo group: UHFSDR
Date: 2016-02-25 17:22:47 UTC
From: MIKE DURKIN
Topic: 2143 Message: 2144

WEll . i dont know yet ....

Seems like sigma delta is all over the place ...

Found this ... ESS 9018Q2C

Still uses sigma delta but claims to reduce sigma/delta noise ... how much ?

http://www.apogeedigital.com/ess-sabre

LCFC HiFi Audio DSD1796 XMOS U8 OTG 384K/32bit USB DAC HiFi Headphone Amp on ebay is just under 100$

To: softrock40@yahoogroups.com; aqrp@yahoogroups.com; uhfsdr@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Thu, 25 Feb 2016 08:28:28 -0800
Subject: [UHFSDR] Non sigma/delta USB sound cards

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Iv been wondering if anyone has a list of non SD (sigma/delta) USB soundcards ....

If there is not one compiled for the list .... how about we try to do so .....

Id hope that there are some that are under 100$ (ok 20$) ....

2145. RE: [UHFSDR] Non sigma/delta USB sound cards

Yahoo group: UHFSDR
Date: 2016-02-25 17:29:58 UTC
From: MIKE DURKIN
Topic: 2143 Message: 2145

Speaking of which ,..... TLV320

Are there any SDR2GO/STM32-SDR users that have looked on a spectrum analyser to see what kind of sigma/delta noise there is ?

To: uhfsdr@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Thu, 25 Feb 2016 09:22:47 -0800
Subject: RE: [UHFSDR] Non sigma/delta USB sound cards

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From: UHFSDR@yahoogroups.com
Date: Thu, 25 Feb 2016 08:28:28 -0800
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If there is not one compiled for the list .... how about we try to do so .....

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2146. RE: [UHFSDR] Via 1620A USB Soundcard issues

Yahoo group: UHFSDR
Date: 2016-02-25 22:23:39 UTC
From: MIKE DURKIN
Topic: 2140 Message: 2146

I think ill revisit the 1620A ... found some where on the net that it needs a timing offset .... so that might be causing my terrible amplitude error ... maybe.

Funny that it does not need one on Rx

http://www.telepostinc.com/soundcards.html

Note 3 for the Syba
(VIA 1620A) USB Sound Card SD-AUD20101

To: UHFSDR@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Wed, 24 Feb 2016 13:10:38 -0800
Subject: Re: [UHFSDR] Via 1620A USB Soundcard issues

Mike:

Good information. I was planning on using those USB soundcards for a stand alone version of the UHFSDR with a Raspberry PI replacing the computer. Want to use the PI Zero, but they have been out of stock since the first day offered in November.

On transmit, have you tried a lower rate(48KHz or 24 KHz)?

Is the old CM106 based USB card still being sold?

Dave - WB6DHW

<http://wb6dhw.com>

On 2/24/2016 11:39 AM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:

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Leif used T pads to reduce the input to the opamps and provide a purely resistive load for the soundcard output opamps (if they had one) .... I would solely would use a precision SMD resistor for left/right channels and try that out in the future ...

After swapping back in my ole' CM106 based USB soundcard ... things went back to normal (good and stable) values for image rejection ...

2147. Re: [UHFSDR] Non sigma/delta USB sound cards

Yahoo group: UHFSDR
Date: 2016-02-25 23:08:51 UTC
From: Dave Miller
Topic: 2143 Message: 2147

Huge amounts of out of band noise.
That is why on the STM32-SDR I added a low pass filter to clean things up.
It's requirement was well hidden in the data sheet.

Dave
VE7HR/VE7PKE

On Thu, Feb 25, 2016 at 9:29 AM, MIKE DURKIN Patriot121@... [UHFSDR] <
UHFSDR@yahoogroups.com> wrote:

>
>
> Speaking of which ,..... TLV320
>
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> Date: Thu, 25 Feb 2016 09:22:47 -0800
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> LCFC HiFi Audio DSD1796 XMOS U8 OTG 384K/32bit USB DAC HiFi Headphone Amp
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> To: softrock40@yahoogroups.com; aqrp@yahoogroups.com;
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> From: UHFSDR@yahoogroups.com

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> If there is not one compiled for the list .... how about we try to do so
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2148. RE: [UHFSDR] Via 1620A USB Soundcard issues

Yahoo group: UHFSDR
Date: 2016-02-25 23:18:38 UTC
From: MIKE DURKIN
Topic: 2140 Message: 2148

Ok .. egg on head here ....

When using an data offset for the Tx side .... amplitude error went down under 10% ....

Now to get back to looking at the S/D noise and see how bad it is ....

To: uhfsdr@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Thu, 25 Feb 2016 14:23:39 -0800
Subject: RE: [UHFSDR] Via 1620A USB Soundcard issues

I think ill revisit the 1620A ... found some where on the net that it needs a timing offset .... so that might be causing my terrible amplitude error ... maybe.

Funny that it does not need one on Rx

http://www.telepostinc.com/soundcards.html

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From: UHFSDR@yahoogroups.com
Date: Wed, 24 Feb 2016 13:10:38 -0800
Subject: Re: [UHFSDR] Via 1620A USB Soundcard issues

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On transmit, have you tried a lower rate(48KHz or 24 KHz)?

Is the old CM106 based USB card still being sold?

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2149. RE: [UHFSDR] Non sigma/delta USB sound cards

Yahoo group: UHFSDR
Date: 2016-02-25 23:28:29 UTC
From: MIKE DURKIN
Topic: 2143 Message: 2149

Ok ..

how about the inband noise .... in the passband ?

Ie ... did you see Lief's complaint about S/D noise in Flex and USB based soundcards ?

about Tx'd noise floor raised ~15db from the S/D garbage going out with the intended signal ....

To: UHFSDR@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Thu, 25 Feb 2016 15:08:51 -0800
Subject: Re: [UHFSDR] Non sigma/delta USB sound cards

Huge amounts of out of band noise.
That is why on the STM32-SDR I added a low pass filter to clean things up.
It's requirement was well hidden in the data sheet.

Dave
VE7HR/VE7PKE

On Thu, Feb 25, 2016 at 9:29 AM, MIKE DURKIN Patriot121@... [UHFSDR] <UHFSDR@yahoogroups.com> wrote:

Speaking of which ,..... TLV320

Are there any SDR2GO/STM32-SDR users that have looked on a spectrum analyser to see what kind of sigma/delta noise there is ?

To: uhfsdr@yahoogroups.com
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Date: Thu, 25 Feb 2016 09:22:47 -0800
Subject: RE: [UHFSDR] Non sigma/delta USB sound cards

WEll . i dont know yet ....

Seems like sigma delta is all over the place ...

Found this ... ESS 9018Q2C

Still uses sigma delta but claims to reduce sigma/delta noise ... how much ?

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LCFC HiFi Audio DSD1796 XMOS U8 OTG 384K/32bit USB DAC HiFi Headphone Amp on ebay is just under 100$

To: softrock40@yahoogroups.com; aqrp@yahoogroups.com; uhfsdr@yahoogroups.com
From: UHFSDR@yahoogroups.com

Date: Thu, 25 Feb 2016 08:28:28 -0800
Subject: [UHFSDR] Non sigma/delta USB sound cards

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If there is not one compiled for the list .... how about we try to do so .....

Id hope that there are some that are under 100$ (ok 20$) ....

2150. Re: [UHFSDR] Non sigma/delta USB sound cards

Yahoo group: UHFSDR
Date: 2016-02-26 00:20:33 UTC
From: Dave Miller
Topic: 2143 Message: 2150

What passband bandwidth? If I recall it was in the 20 KHz area. For TX you don't need a wideband signal. If I recall I did some testing with decent Chinese 2 channel arbitrary waveform generator and spectrum analyzer and after I added the low pass filter on the STM32-SDR with uses a TI TLV320AIC3204 there was no decernable difference in noise between the STM32-SDR and the Waveform generator. It been a couple of years ago when I did that testing but I have some spectrum plots in a report I did. I direct email to me will prompt me to find what data I might have.
Dave
VE7HR / VE7PKE

On Thu, Feb 25, 2016 at 3:28 PM, MIKE DURKIN Patriot121@... [UHFSDR] <
UHFSDR@yahoogroups.com> wrote:

>
>
> Ok ..
>
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>
> Ie ... did you see Lief's complaint about S/D noise in Flex and USB based
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> From: UHFSDR@yahoogroups.com
> Date: Thu, 25 Feb 2016 15:08:51 -0800
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>
>
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> Id hope that there are some that are under 100$ (ok 20$) ....

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>

2151. new installation bringup

Yahoo group: UHFSDR
Date: 2016-02-28 22:45:27 UTC
From: edfinn11@...
Topic: 2151 Message: 2151

after procrastinating for years, I want to get this running for a microwave IF on 144mhz.

what software is easiest to test this out? I think I want to use powersdr, although I recall there may be a better variant for this type of board...

I also need to control the si570. I have the wb6dhw usb/i2c board too.

I have a creative emu tracker-pre that I can set to 192kbps. My si-570 defaults to 288.200 mHz., so this could be a secondary goal to bring this up.

What is the best way to continue?

tnx,
Ed wa3drc

2152. Re: [UHFSDR] new installation bringup

Yahoo group: UHFSDR
Date: 2016-02-28 22:59:17 UTC
From: Dave
Topic: 2151 Message: 2152

Ed:
The best is

PowerSDR v2.4 for Homemade SDR transceivers

They have a Yahoo group. Actually, any of the SDR programs that will control a Softrock will work if you can select a divide by 2 LO. These programs also control the Si570 via the wb6dhw usbi2 board. If your Si570 defaults to 288.200, then the UHFSDR will be on 144.05.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/28/2016 2:45 PM, edfinn11@... [UHFSDR] wrote:
>
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> microwave IF on 144mhz.
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> this up.
>
> What is the best way to continue?
>
>
> tnx,
>
> Ed wa3drc
>
>

2153. RE: [UHFSDR] new installation bringup

Yahoo group: UHFSDR
Date: 2016-02-28 23:24:27 UTC
From: MIKE DURKIN
Topic: 2151 Message: 2153

I didn't see what OS ....

But i like to use Ubuntu and Quisk ... I use FM most of the time but i have made a few contacts on SSB VHF, soon to have UHF working too ....

Digital was easy with Fldigi (psk31 usually) and wspr/JT9/65 ...

To: UHFSDR@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Sun, 28 Feb 2016 14:45:27 -0800
Subject: [UHFSDR] new installation bringup

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I also need to control the si570. I have the wb6dhw usb/i2c board too.

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What is the best way to continue?

tnx,
Ed wa3drc

2154. RE: [UHFSDR] new installation bringup

Yahoo group: UHFSDR
Date: 2016-02-29 22:38:28 UTC
From: edfinn11@...
Topic: 2151 Message: 2154

using windows 10 64 bit here...

I decided to try powersdr v2.4.4 . I have it installed with the "overlays" and drivers.

I've been clicking around and it is not obvious where to tell this s/w that the sampling frequency needs to be 2x. Where is this set?

tnx,
Ed

2155. UHFSDR using Odroid

Yahoo group: UHFSDR
Date: 2016-02-29 23:56:22 UTC
From: Jim Sanford
Topic: 2155 Message: 2155

Has anybody successfully run UHFSDR with an ODROID as the processor? If so, can you share details like the SDR program and installation?

I ask because I just saw an announcement for an Odroid C2 with quad core, 64-bit, 2GB of memory, for Forty One Dollars!

Thanks & 73,
Jim
wb4gcs@...

This email has been checked for viruses by Avast antivirus software.
https://www.avast.com/antivirus

2156. RE: [UHFSDR] UHFSDR using Odroid

Yahoo group: UHFSDR
Date: 2016-03-01 00:16:30 UTC
From: MIKE DURKIN
Topic: 2155 Message: 2156

There is a Quad 64 from PineApple ...Pine64

Thoughcost sounds about the same .. i wonder what quad is going to be offered by Odroid ...

I use ubuntu(lubuntu) and Quisk4 with my UHFSDR. A QRP2000 as Si570 controller and sooner or later will use gpio through python to control the hf/VHF and UHF filters ....

Also using a Via1620A(actually its a 1630) usb soundcard ... I AM NOT USING THE ONBOARD sound .... it is still WAY laggy for some reason ....but should try again since there have been pulse audio improvements with Quisk and Ubuntu.

The Odroid i use is a -X2. Quad arm7(was it 9) -- Mali400 is not supported.

To: UHFSDR@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Mon, 29 Feb 2016 18:56:22 -0500
Subject: [UHFSDR] UHFSDR using Odroid

Has anybody successfully run UHFSDR with an ODROID as the processor? If

so, can you share details like the SDR program and installation?

I ask because I just saw an announcement for an Odroid C2 with quad

core, 64-bit, 2GB of memory, for Forty One Dollars!

Thanks & 73,

Jim

wb4gcs@...

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https://www.avast.com/antivirus

2157. RE: [UHFSDR] UHFSDR using Odroid

Yahoo group: UHFSDR
Date: 2016-03-01 00:27:10 UTC
From: MIKE DURKIN
Topic: 2155 Message: 2157

Ill need to add that i made a modification to Quisk if you want to operate above 480Mhz ... depends on your need for microwave use ...

To: uhfsdr@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Mon, 29 Feb 2016 16:16:30 -0800
Subject: RE: [UHFSDR] UHFSDR using Odroid

There is a Quad 64 from PineApple ...Pine64

Thoughcost sounds about the same .. i wonder what quad is going to be offered by Odroid ...

I use ubuntu(lubuntu) and Quisk4 with my UHFSDR. A QRP2000 as Si570 controller and sooner or later will use gpio through python to control the hf/VHF and UHF filters ....

Also using a Via1620A(actually its a 1630) usb soundcard ... I AM NOT USING THE ONBOARD sound .... it is still WAY laggy for some reason ....but should try again since there have been pulse audio improvements with Quisk and Ubuntu.

The Odroid i use is a -X2. Quad arm7(was it 9) -- Mali400 is not supported.

To: UHFSDR@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Mon, 29 Feb 2016 18:56:22 -0500
Subject: [UHFSDR] UHFSDR using Odroid

Has anybody successfully run UHFSDR with an ODROID as the processor? If

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Jim

wb4gcs@...

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https://www.avast.com/antivirus

2158. RE: [UHFSDR] UHFSDR using Odroid

Yahoo group: UHFSDR
Date: 2016-03-01 00:45:26 UTC
From: MIKE DURKIN
Topic: 2155 Message: 2158

Just more noise ....

the pine64 is a quad a53 core with a dual Mali400 ..(mali being worthless as far as i know)

Im not sure if there is going to be a performance boost over the -X2, but surely use less power ... 1.2Ghz pin64 and 1.8Ghz -X2(xynos4412 32bit)

Thought its kinda funny .. my touch screen uses more power than my -X2 does anyways !!!!

To: UHFSDR@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Mon, 29 Feb 2016 18:56:22 -0500
Subject: [UHFSDR] UHFSDR using Odroid

Has anybody successfully run UHFSDR with an ODROID as the processor? If

so, can you share details like the SDR program and installation?

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Thanks & 73,

Jim

wb4gcs@...

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2159. Re: [UHFSDR] UHFSDR using Odroid

Yahoo group: UHFSDR
Date: 2016-03-01 00:52:11 UTC
From: Jim Sanford
Topic: 2155 Message: 2159

Mike:
Thanks!
So, now I know it's been done.

I have USB2SDR, so should be good on interfaces.

You are a bit above my linux level-of-knowledge, but when I get to this
project, I know who to ask. I will want to know about the mods for >
400 Mhz --- the whole point of this is for the UHFSDR and SDR to be IF
for my microwave stack.

Thanks & very 73,
Jim
wb4gcs@...

On 2/29/2016 7:45 PM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>
> Just more noise ....
>
> the pine64 is a quad a53 core with a dual Mali400 ..(mali being
> worthless as far as i know)
>
> Im not sure if there is going to be a performance boost over the -X2,
> but surely use less power ... 1.2Ghz pin64 and 1.8Ghz -X2(xynos4412 32bit)
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> Thanks & 73,
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2160. Re: [UHFSDR] UHFSDR using Odroid

Yahoo group: UHFSDR
Date: 2016-03-01 01:19:59 UTC
From: Sid Boyce
Topic: 2155 Message: 2160

http://www.hardkernel.com/main/products/prdt_info.php?g_code=G145457216438
for the specs and comparison with -C1+ and -XU4.

Waiting for the Pine A64+ to arrive and shortly the ODROID-C2 should arrive.
From the specs the -C2 is 2GHz vs the A64+ 1.2GHz and triple-core
faster Mali vs dual-core Mali.

Only question is whether the available Linux distros will be 64-bit or
32-bit.
73 ... Sid.

On 01/03/16 00:45, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>
> Just more noise ....
>
> the pine64 is a quad a53 core with a dual Mali400 ..(mali being
> worthless as far as i know)
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> Im not sure if there is going to be a performance boost over the -X2,
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> From: UHFSDR@yahoogroups.com
> Date: Mon, 29 Feb 2016 18:56:22 -0500
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> Thanks & 73,
> Jim
> wb4gcs@...
>
> ---
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> https://www.avast.com/antivirus
>
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

2161. Re: [UHFSDR] UHFSDR using Odroid

Yahoo group: UHFSDR
Date: 2016-03-01 01:29:50 UTC
From: Matthew Pitts
Topic: 2155 Message: 2161

Also, there is the new Raspberry Pi 3, with 1.2 GHz quad-core, integrated Bluetooth and Wi-Fi.

Matthew Pitts
N8OHU

On February 29, 2016 8:19:59 PM EST, "Sid Boyce sboyce@... [UHFSDR]" <UHFSDR@yahoogroups.com> wrote:
>http://www.hardkernel.com/main/products/prdt_info.php?g_code=G145457216438
>
>for the specs and comparison with -C1+ and -XU4.
>
>Waiting for the Pine A64+ to arrive and shortly the ODROID-C2 should
>arrive.
> From the specs the -C2 is 2GHz vs the A64+ 1.2GHz and triple-core
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>Only question is whether the available Linux distros will be 64-bit or
>32-bit.
>73 ... Sid.
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>> but surely use less power ... 1.2Ghz pin64 and 1.8Ghz -X2(xynos4412
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>>
>> Thought its kinda funny .. my touch screen uses more power than my
>-X2
>> does anyways !!!!
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>> To: UHFSDR@yahoogroups.com
>> From: UHFSDR@yahoogroups.com
>> Date: Mon, 29 Feb 2016 18:56:22 -0500
>> Subject: [UHFSDR] UHFSDR using Odroid
>>
>> Has anybody successfully run UHFSDR with an ODROID as the processor?

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>> so, can you share details like the SDR program and installation?
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>> Thanks & 73,
>> Jim
>> wb4gcs@...
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>> ---
>> This email has been checked for viruses by Avast antivirus software.
>> https://www.avast.com/antivirus
>>
>>
>>
>
>
>--
>Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
>Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
>Senior Staff Specialist, Cricket Coach
>Microsoft Windows Free Zone - Linux used for all Computing Tasks
>
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>
>Yahoo Groups Links
>
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Sent from my Android device with K-9 Mail. Please excuse my brevity.

2162. RE: [UHFSDR] UHFSDR using Odroid

Yahoo group: UHFSDR
Date: 2016-03-01 07:16:12 UTC
From: MIKE DURKIN
Topic: 2155 Message: 2162

Ok .... im fairly sure that i have the most recent kernel and all updates in ....

Im still not getting radio audio to the on-board speakers jack ....

Even tested the audio path with some music (that did work) ..... Quisk simply does not like the huge latency values for the onboard sound.

At least for the odroid-X2 ... Quisk and the on-board sound still does not work -- with any SDR program iv tried.

The Odroid-C2 might be different -- but plan on using 2 USB soundcards ....

To: UHFSDR@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Mon, 29 Feb 2016 20:29:50 -0500
Subject: Re: [UHFSDR] UHFSDR using Odroid

Also, there is the new Raspberry Pi 3, with 1.2 GHz quad-core, integrated Bluetooth and Wi-Fi.

Matthew Pitts

N8OHU

On February 29, 2016 8:19:59 PM EST, "Sid Boyce sboyce@... [UHFSDR]" <UHFSDR@...m> wrote:
http://www.hardkernel.com/main/products/prdt_info.php?g_code=G145457216438
for the specs and comparison with -C1+ and -XU4.

Waiting for the Pine A64+ to arrive and shortly the ODROID-C2 should arrive.
From the specs the -C2 is 2GHz vs the A64+ 1.2GHz and triple-core
faster Mali vs dual-core Mali.

Only question is whether the available Linux distros will be 64-bit or
32-bit.
73 ... Sid.

On 01/03/16 00:45, MIKE DURKIN Patriot121@msn.com [UHFSDR] wrote:

Just more noise ....

the pine64 is a quad a53 core with a dual Mali400 ..(mali being
worthless as far as i know)

Im not sure if there is going to be a performance boost over the -X2,
but surely use less power ... 1.2Ghz pin64 and 1.8Ghz -X2(xynos4412 32bit)

Thought its kinda funny .. my touch screen uses more power than my -X2
does anyways !!!!

To: UHFSDR@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Mon, 29 Feb 2016 18:56:22 -0500
Subject: [UHFSDR] UHFSDR using Odroid

Has anybody successfully run UHFSDR with an ODROID as the processor? If so, can you share details like the SDR program and installation?

I ask because I just saw an announcement for an Odroid C2 with quad core, 64-bit, 2GB of memory, for Forty One Dollars!

Thanks & 73,
Jim
wb4gcs@...

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--

Sent from my Android device with K-9 Mail. Please excuse my brevity.

2163. RE: [UHFSDR] UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2016-03-01 17:15:47 UTC
From: MIKE DURKIN
Topic: 1100 Message: 2163

For those that have done the SPF5043Z change out for U4 ...

Do you get over driven with lots of images from local repeaters -- i mean close -- i have 2 that are less than 10miles away ....

Im wondering what is the input signal level for overdrive .... Im not sure i want to add a Tpad just for this situation .... id like to keep the week signal performance(even if i have not put up my beams yet)

If anyone one is interested in seeing what im getting .. i could take a screen shot and you can look me up on Qrz to get my location and IEVHF repeater on 146.88Mhz's location ...

To: UHFSDR@yahoogroups.com
From: wb4gcs@...
Date: Sat, 28 Jul 2012 12:13:34 -0400
Subject: Re: FW: [UHFSDR] UHFSDR Sensitivity Improvement

Thanks.

Let me get what I have going, and I'll go from there. I don't need
the additional sensitivity, (this will be IF for my microwave stack)
but like the lower NF and higher dynamic range.

73,

Jim

wb4gcs@...

On 7/28/2012 12:00 PM, The Silver Fox
wrote:

My price is $4
a chip plus $3 shipping. The $3 charge only applies
to the purchase not the number of chips. That is, the
cost to ship multiples is still $3.
73,
Alan – W6ARH

From: UHFSDR@yahoogroups.com
[mailto:UHFSDR@yahoogroups.com] On Behalf Of Jim
Sanford

Sent: Saturday, July 28, 2012 8:52 AM

To: UHFSDR@yahoogroups.com

Subject: Re: FW: [UHFSDR] UHFSDR
Sensitivity Improvement

Do you still have some of those devices for
sale? Or was that a different device?

Just ordered the last pice I need (power supply
for atlas/ozy/etc.) to get it on the air.

Thanks & 73,

jim

wb4gcs@...

On 7/27/2012 11:28 PM, The
Silver Fox wrote:

FYI

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups
.com] On Behalf Of Ed

Sent: Wednesday, February 22,
2012 1:15 PM

To: UHFSDR@yahoogroups.com

Subject: [UHFSDR] UHFSDR
Sensitivity Improvement

Hello All you UHFSDR lovers,

I decided to do some further
measurements of the MDS on my
UHFSDR.

I started by measuring the UHFSDR
unmodified in the following set up
conditions:

Software: WRplus

PC: AS! PIRE One Net book

Signal Generator: HP with additional
Microwave attenuators.

Mode : CW

Frequency: 144.300 Mhz

Bandwidth: 500Hz

AGC:Off

The result for 1 dB signal above
noise power : -133dBm.

I then decided to change U4 (BGA612) to a different type of MMIC, the SPF5043Z. This is a 50 Mhz to 4 Ghz part with high dynamic range. It has a lo! wer noise figure and higher gain than the BGA612.

The mod was simple, remove the BGA612, install the SPF5043Z taking care to check the different orientation and replace R3 (120 ohm)with a 100nH Inductor.

The result for 1 dB signal above noise power : -145dBm

So if you want a super sensitive VHF/UHF front end, you got it !

Only possible down side is that the IC starts to degrade below 50 Mhz. It could still be adequate for the DC bands if you really must use the UHFSDR for that purpose.

What a remarkable little radio this is.

Regards

Ed GM3SBC

2164. Re: [UHFSDR] UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2016-03-01 22:13:11 UTC
From: Jim Sanford
Topic: 1100 Message: 2164

Mike:
I would like to see what you are getting.

I took a quick look at data sheet: OIP3 of 33 dBm, gain of 20 db
suggest bad things start happening around 13 dBm (20 mW) input.

One other thing to consider: With 20db preamp gain, might the mixer, or
post-mixer amp be getting driven into non-linearity?

An easy option would be a single cavity filter, tuned for the center of
the weak-signal area you want. Based on my experience sweeping
band-pass/band-reject cavities in repeater duplexers, you can put a
-40db notch about anywhere you want. If you only have a band-pass
cavity, I'd expect at least 20 db rejection 2 MHz away.

Good luck and stay in touch!!
73,
Jim
wb4gcs@...

On 3/1/2016 12:15 PM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>
> For those that have done the SPF5043Z change out for U4 ...
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> Do you get over driven with lots of images from local repeaters -- i
> mean close -- i have 2 that are less than 10miles away ....
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> Im wondering what is the input signal level for overdrive .... Im not
> sure i want to add a Tpad just for this situation .... id like to keep
> the week signal performance(even if i have not put up my beams yet)
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> If anyone one is interested in seeing what im getting .. i could take
> a screen shot and you can look me up on Qrz to get my location and
> IEVHF repeater on 146.88Mhz's location ...
>
> ---
> To: UHFSDR@yahoogroups.com
> From: wb4gcs@...
> Date: Sat, 28 Jul 2012 12:13:34 -0400
> Subject: Re: FW: [UHFSDR] UHFSDR Sensitivity Improvement
>
> Thanks.
> Let me get what I have going, and I'll go from there. I don't need
> the additional sensitivity, (this will be IF for my microwave stack)
> but like the lower NF and higher dynamic range.
> 73,

> Jim
> wb4gcs@... <mailto:wb4gcs@...>
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> On 7/28/2012 12:00 PM, The Silver Fox wrote:
>
> My price is $4 a chip plus $3 shipping. The $3 charge only applies
> to the purchase not the number of chips. That is, the cost to
> ship multiples is still $3.
>
> 73,
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> Alan ? W6ARH
>
> *From:*UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> [mailto:UHFSDR@yahoogroups.com] *On Behalf Of *Jim Sanford
> *Sent:* Saturday, July 28, 2012 8:52 AM
> *To:* UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> *Subject:* Re: FW: [UHFSDR] UHFSDR Sensitivity Improvement
>
> Do you still have some of those devices for sale? Or was that a
> different device?
>
> Just ordered the last pice I need (power supply for
> atlas/ozy/etc.) to get it on the air.
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> Thanks & 73,
> jim
> wb4gcs@... <mailto:wb4gcs@...>
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> *From:*UHFSDR@yahoogroups.com [
> <mailto:UHFSDR@yahoogroups.com>mailto:UHFSDR@yahoogroups .com
> <mailto:UHFSDR@yahoogroups.com>] *On Behalf Of *Ed
> *Sent:* Wednesday, February 22, 2012 1:15 PM
> *To:* UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> *Subject:* [UHFSDR] UHFSDR Sensitivity Improvement
>
> Hello All you UHFSDR lovers,
>
> I decided to do some further measurements of the MDS on my UHFSDR.
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> I started by measuring the UHFSDR unmodified in the following
> set up conditions:
>
> Software: WRplus
> PC: AS! PIRE One Net book

> Signal Generator: HP with additional Microwave attenuators.
> Mode : CW
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> Only possible down side is that the IC starts to degrade below
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> Regards
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> Ed GM3SBC
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https://www.avast.com/antivirus

2165. RE: [UHFSDR] UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2016-03-01 22:45:26 UTC
From: MIKE DURKIN
Topic: 1100 Message: 2165

I dont know how much signal im getting to the input from the repeater ....

I wonder if i damaged the SPF5043Z when installing ....

I need a known power/signal source .... and i do know where to borrow one at .... i think.

Ill post a pic in the files section later .... its not soundcard overdrive , i don't think, i can reduce soundcard gain quite low and high and same effect ....

Im not getting intermod, but products from too much signal i think .... using a 2M bandpass too , so you know.

To: UHFSDR@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Tue, 1 Mar 2016 17:13:11 -0500
Subject: Re: [UHFSDR] UHFSDR Sensitivity Improvement

Mike:

I would like to see what you are getting.

I took a quick look at data sheet: OIP3 of 33 dBm, gain of 20 db
suggest bad things start happening around 13 dBm (20 mW) input.

One other thing to consider: With 20db preamp gain, might the
mixer, or post-mixer amp be getting driven into non-linearity?

An easy option would be a single cavity filter, tuned for the center
of the weak-signal area you want. Based on my experience sweeping
band-pass/band-reject cavities in repeater duplexers, you can put a
-40db notch about anywhere you want. If you only have a band-pass
cavity, I'd expect at least 20 db rejection 2 MHz away.

Good luck and stay in touch!!

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On 3/1/2016 12:15 PM, MIKE DURKIN
Patriot121@...m [UHFSDR] wrote:

For those that have done the SPF5043Z change
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repeaters -- i mean close -- i have 2 that are less than

10miles away ....

Im wondering what is the input signal level for overdrive .... Im not sure i want to add a Tpad just for this situation .... id like to keep the week signal performance(even if i have not put up my beams yet)

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From: wb4gcs@...

Date: Sat, 28 Jul 2012 12:13:34 -0400

Subject: Re: FW: [UHFSDR] UHFSDR Sensitivity Improvement

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Subject: Re: FW: [UHFSDR]
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device?

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get it on the air.

Thanks & 73,

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From:
UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups .com]
On Behalf Of Ed

Sent:
Wednesday, February
22, 2012 1:15 PM

To: UHFSDR@yahoogroups.com

Subject:
[UHFSDR] UHFSDR
Sensitivity
Improvement

Hello All you UHFSDR
lovers,

I decided to do some
further measurements of
the MDS on my UHFSDR.

I started by measuring
the UHFSDR unmodified in
the following set up
conditions:

Software: WRplus

PC: AS! PIRE One Net
book

Signal Generator: HP
with additional
Microwave attenuators.

Mode : CW

Frequency: 144.300 Mhz

Bandwidth: 500Hz

AGC:Off

The result for 1 dB
signal above noise power
: -133dBm.

I then decided to change
U4 (BGA612) to a
different type of MMIC,
the SPF5043Z. This is a
50 Mhz to 4 Ghz part
with high dynamic range.
It has a lo! wer noise
figure and higher gain
than the BGA612.

The mod was simple,
remove the BGA612,
install the SPF5043Z
taking care to check the
different orientation
and replace R3 (120 ohm
)with a 100nH Inductor.

The result for 1 dB
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So if you want a super
sensitive VHF/UHF front
end, you got it !

Only possible down side
is that the IC starts to
degrade below 50 Mhz. It
could still be adequate
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really must use the
UHFSDR for that purpose.

What a remarkable little
radio this is.

Regards

Ed GM3SBC

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www.avast.com

2166. RE: [UHFSDR] UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2016-03-01 22:53:09 UTC
From: MIKE DURKIN
Topic: 1100 Message: 2166

Found that a MFJ-259b ....

The output into 50 ohms is about 7 dBm when properly aligned with fully charged batteries.

So it must be damaged ... the 259b with just a pigtail does the same thing ....

To: uhfsdr@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Tue, 1 Mar 2016 14:45:26 -0800
Subject: RE: [UHFSDR] UHFSDR Sensitivity Improvement

I dont know how much signal im getting to the input from the repeater ....

I wonder if i damaged the SPF5043Z when installing ....

I need a known power/signal source .... and i do know where to borrow one at .... i think.

Ill post a pic in the files section later .... its not soundcard overdrive , i don't think, i can reduce soundcard gain quite low and high and same effect ....

Im not getting intermod, but products from too much signal i think .... using a 2M bandpass too , so you know.

To: UHFSDR@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Tue, 1 Mar 2016 17:13:11 -0500
Subject: Re: [UHFSDR] UHFSDR Sensitivity Improvement

Mike:

I would like to see what you are getting.

I took a quick look at data sheet: OIP3 of 33 dBm, gain of 20 db
suggest bad things start happening around 13 dBm (20 mW) input.

One other thing to consider: With 20db preamp gain, might the
mixer, or post-mixer amp be getting driven into non-linearity?

An easy option would be a single cavity filter, tuned for the center
of the weak-signal area you want. Based on my experience sweeping
band-pass/band-reject cavities in repeater duplexers, you can put a
-40db notch about anywhere you want. If you only have a band-pass
cavity, I'd expect at least 20 db rejection 2 MHz away.

Good luck and stay in touch!!

73,

Jim

wb4gcs@...

On 3/1/2016 12:15 PM, MIKE DURKIN
Patriot121@... [UHFSDR] wrote:

For those that have done the SPF5043Z change
out for U4 ...

Do you get over driven with lots of images from local
repeaters -- i mean close -- i have 2 that are less than
10miles away ....

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If anyone one is interested in seeing what im getting .. i
could take a screen shot and you can look me up on Qrz to
get my location and IEVHF repeater on 146.88Mhz's location
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To: UHFSDR@yahoogroups.com

From: wb4gcs@...

Date: Sat, 28 Jul 2012 12:13:34 -0400

Subject: Re: FW: [UHFSDR] UHFSDR Sensitivity Improvement

Thanks.

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there. I don't need the additional sensitivity,
(this will be IF for my microwave stack) but like
the lower NF and higher dynamic range.

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My
price is $4 a chip plus $3 shipping.
The $3 charge only applies to the
purchase not the number of chips. That
is, the cost to ship multiples is still
$3.
73,
Alan
– W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
On Behalf Of Jim Sanford

Sent: Saturday, July 28, 2012
8:52 AM

To: UHFSDR@yahoogroups.com

Subject: Re: FW: [UHFSDR]
UHFSDR Sensitivity Improvement

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From:
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On Behalf Of Ed

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2167. RE: [UHFSDR] UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2016-03-02 02:24:54 UTC
From: MIKE DURKIN
Topic: 1100 Message: 2167

Ok .. posted to the photos section

https://groups.yahoo.com/neo/groups/UHFSDR/photos/albums/2143879841/lightbox/849599928?orderBy=ordinal&sortOrder=asc&photoFilter=ALL#

The Rx image is at 146.87Mhz .... the rest are products of something .. might be a damaged SPF5043Z.

Need to take the time to swap with another that i have not used yet.

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Subject: Re: FW: [UHFSDR] UHFSDR Sensitivity Improvement

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2168. RE: [UHFSDR] UHFSDR Sensitivity Improvement

Yahoo group: UHFSDR
Date: 2016-03-02 22:52:33 UTC
From: MIKE DURKIN
Topic: 1100 Message: 2168

Ok .. i replaced the suspected SPF504 .... and its the same.

https://groups.yahoo.com/neo/groups/UHFSDR/photos/albums/2143879841/lightbox/668492680?orderBy=ordinal&sortOrder=asc&photoFilter=ALL#

Guess the one i removed was ok ....

so either i have more than 10mW coming input ... or some thing else is out of wack ...

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From: UHFSDR@yahoogroups.com
Date: Tue, 1 Mar 2016 18:24:54 -0800
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2169. Re: [UHFSDR] Via 1620A USB Soundcard issues

Yahoo group: UHFSDR
Date: 2016-03-04 16:56:07 UTC
From: <Patriot121@...>
Topic: 2140 Message: 2169

Dave did you get a via1620/1630 or pass on it?

Sent from Outlook Mobile

On Wed, Feb 24, 2016 at 1:11 PM -0800, "Dave dave@... [UHFSDR]" <UHFSDR@yahoogroups.com> wrote:

Mike:
Good information. I was planning on using those USB soundcards for a stand alone version of the UHFSDR with a Raspberry PI replacing the computer. Want to use the PI Zero, but they have been out of stock since the first day offered in November.
On transmit, have you tried a lower rate(48KHz or 24 KHz)?
Is the old CM106 based USB card still being sold?

Dave - WB6DHW
<http://wb6dhw.com>

On 2/24/2016 11:39 AM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>
> I Hear by rescind my endorsement of any Via 1620a USB based soundcard ....
>
> Though its fine for Rx @ 96Khz .... and cheap, but
>
> Its output Phase error and moderate amplitude error makes it horrible
> for Tx ....
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> I thought i had developed a fault with my UHFSDR for the last 2 months
> .... even unhooked my DIY amps to investigate (i thought they were
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> This all might be an impedance issue that Lief has pointed to .... but
> im not sure ....
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> Leif used T pads to reduce the input to the opamps and provide a
> purely resistive load for the soundcard output opamps (if they had
> one) .... I would solely would use a precision SMD resistor for
> left/right channels and try that out in the future ...
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>
> After swapping back in my ole' CM106 based USB soundcard ... things
> went back to normal (good and stable) values for image rejection ...
>
>
>
>

2170. RE: [UHFSDR] new installation bringup

Yahoo group: UHFSDR
Date: 2016-03-04 18:05:47 UTC
From: ed.murphy31@...
Topic: 2151 Message: 2170

There is a specific version of V 2.4.4 which is configured for X 2 LO on the PowerSDR-IQ forum.
Regards Ed GM3SBC

2171. Re: [UHFSDR] Via 1620A USB Soundcard issues

Yahoo group: UHFSDR
Date: 2016-03-04 20:28:39 UTC
From: Dave
Topic: 2140 Message: 2171

Mike:
I already have the Via1620 based dongle. Haven't got to using the PI
with the UHFSDR. Also just got the CM106 based box.

Dave - WB6DHW
<http://wb6dhw.com>

On 3/4/2016 8:56 AM, Patriot121@... [UHFSDR] wrote:
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> Sent from Outlook Mobile <https://aka.ms/blhgte>
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2172. RE: [UHFSDR] Via 1620A USB Soundcard issues

Yahoo group: UHFSDR
Date: 2016-03-04 21:58:37 UTC
From: MIKE DURKIN
Topic: 2140 Message: 2172

Ok .. when you try out the 1620 ... let me know if you had to set time delay for channel offset or not ...

Iv been having a change in settings from time to time with mine and im not sure if its a driver issue or overload on the USB bus ...

Some times my DisplayLink USB display does not come up too .... so im leaning twards a system overload here ...

Also what are the maximum settings you managed to acheive ... 24bit or 16 //// 48Khz or 196Khz ... (once tired)

I can set 196k but only 16bit for all bandwidths ....

Also i have a spur or something 20khz out from center (vfo spike) -- on both sides .... need to investigate if its a product from the soundcard (1620) or mixers.

As i change the Lo setting all products from mixers should move in frequency 2X or more right?

Also im going to try adding a 20ohm resister on left and right to ground to see if there is any effect, probably tacked across C31 & C30 ...

Ramblings and wonderings today .....

To: UHFSDR@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Fri, 4 Mar 2016 12:28:39 -0800
Subject: Re: [UHFSDR] Via 1620A USB Soundcard issues

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2173. RE: [UHFSDR] Via 1620A USB Soundcard issues

Yahoo group: UHFSDR
Date: 2016-03-04 23:07:55 UTC
From: MIKE DURKIN
Topic: 2140 Message: 2173

adding the 20ohm resistors to C30 & C31 was terrible ....

as audio drive was 50% alot of harmonics were seen .....

What is the input voltage for audio expected to reach opamp limit of the UHFSDR (U9)?

To: uhfsdr@yahoogroups.com
From: UHFSDR@yahoogroups.com
Date: Fri, 4 Mar 2016 13:58:37 -0800
Subject: RE: [UHFSDR] Via 1620A USB Soundcard issues

Ok .. when you try out the 1620 ... let me know if you had to set time delay for channel offset or not ...

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the PI with the UHFSDR. Also just got the CM106 based box.

Dave - WB6DHW

<http://wb6dhw.com>

On 3/4/2016 8:56 AM, Patriot121@... [UHFSDR] wrote:

Dave did you get a via1620/1630 or pass on it?
Sent from Outlook Mobile

On Wed, Feb 24, 2016 at 1:11 PM
-0800, "Dave dave@... [UHFSDR]"
<UHFSDR@yahoogroups.com>
wrote:

Mike:

Good information. I was planning on using those
USB soundcards for a stand alone version of the
UHFSDR with a Raspberry PI replacing the
computer. Want to use the PI Zero, but they have
been out of stock since the first day offered in
November.

On transmit, have you tried a lower rate(48KHz
or 24 KHz)?

Is the old CM106 based USB card still being
sold?

Dave - WB6DHW

<http://wb6dhw.com>

On 2/24/2016 11:39 AM, MIKE DURKIN
Patriot121@msn.com [UHFSDR] wrote:

I Hear by rescind my endorsement
of any Via 1620a USB based soundcard ....

Though its fine for Rx @ 96Khz .... and cheap,
but

Its output Phase error and moderate amplitude
error makes it horrible for Tx ....

I thought i had developed a fault with my
UHFSDR for the last 2 months .... even
unhooked my DIY amps to investigate (i
thought they were the problem originally)

This all might be an impedance issue that Lief
has pointed to .... but im not sure ....

Leif used T pads to reduce the input to the
opamps and provide a purely resistive load for
the soundcard output opamps (if they had one)
.... I would solely would use a precision SMD
resistor for left/right channels and try that
out in the future ...

After swapping back in my ole' CM106 based USB soundcard ... things went back to normal (good and stable) values for image rejection ...

2174. Re: [UHFSDR] Via 1620A USB Soundcard issues

Yahoo group: UHFSDR
Date: 2016-03-05 01:52:38 UTC
From: Dave
Topic: 2140 Message: 2174

Mike:
Haven't done that calculation before. I don't think the op amp is
the limiting item. It is set up for a gain of 2. The VCC is 5VDC, so
the input must be below +- 1.25V before limiting. The FST3257 will also
limit at about the same as it is a 5V device. The IF input of the DBM
will, I think, limit at or before +_1.4V, which neglecting loses would
correspond to +_.7 volts at the op amp input. Too much input will be
obvious as it will flattop and produce harmonics of the audio.
Just checked the ADE-2ADK data sheet and the 1dB compression for the
RF and IF inputs is +1dBm. If my math is correct, this is .25V RMS(?)
in a 50 ohm system.
Dave - WB6DHW
<http://wb6dhw.com>

On 3/4/2016 3:07 PM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>
> adding the 20ohm resistors to C30 & C31 was terrible ....
>
> as audio drive was 50% alot of harmonics were seen .....
>
> What is the input voltage for audio expected to reach opamp limit of
> the UHFSDR (U9)?
>
> ---
> To: uhfsdr@yahoogroups.com
> From: UHFSDR@yahoogroups.com
> Date: Fri, 4 Mar 2016 13:58:37 -0800
> Subject: RE: [UHFSDR] Via 1620A USB Soundcard issues
>
>
> Ok .. when you try out the 1620 ... let me know if you had to set time
> delay for channel offset or not ...
>
> Iv been having a change in settings from time to time with mine and im
> not sure if its a driver issue or overload on the USB bus ...
>
> Some times my DisplayLink USB display does not come up too .... so im
> leaning twards a system overload here ...
>
> Also what are the maximum settings you managed to acheive ... 24bit or
> 16 //// 48Khz or 196Khz ... (once tired)
>
> I can set 196k but only 16bit for all bandwidths ....
>
> Also i have a spur or something 20khz out from center (vfo spike) --

> on both sides .... need to investigate if its a product from the
> soundcard (1620) or mixers.
>
> As i change the Lo setting all products from mixers should move in
> frequency 2X or more right?
>
> Also im going to try adding a 20ohm resister on left and right to
> ground to see if there is any effect, probably tacked across C31 & C30 ...
>
> Ramblings and wonderings today .....
>
> ---
> To: UHFSDR@yahoogroups.com
> From: UHFSDR@yahoogroups.com
> Date: Fri, 4 Mar 2016 12:28:39 -0800
> Subject: Re: [UHFSDR] Via 1620A USB Soundcard issues
>
>
> Mike:
> I already have the Via1620 based dongle. Haven't got to using the
> PI with the UHFSDR. Also just got the CM106 based box.
>
> Dave - WB6DHW
> <http://wb6dhw.com> <http://wb6dhw.com>
>
> On 3/4/2016 8:56 AM, Patriot121@... <mailto:Patriot121@...>
> [UHFSDR] wrote:
>
>
> Dave did you get a via1620/1630 or pass on it?
>
> Sent from Outlook Mobile <https://aka.ms/blhgte>
>
>
>
>
> On Wed, Feb 24, 2016 at 1:11 PM -0800, "Dave dave@...
> <mailto:dave@...> [UHFSDR]" <UHFSDR@yahoogroups.com
> <mailto:UHFSDR@yahoogroups.com>> wrote:
>
> Mike:
> Good information. I was planning on using those USB soundcards
> for a stand alone version of the UHFSDR with a Raspberry PI
> replacing the computer. Want to use the PI Zero, but they have
> been out of stock since the first day offered in November.
> On transmit, have you tried a lower rate(48KHz or 24 KHz)?
> Is the old CM106 based USB card still being sold?
>
> Dave - WB6DHW
> <http://wb6dhw.com> <http://wb6dhw.com>

>
> On 2/24/2016 11:39 AM, MIKE DURKIN
> <mailto:Patriot121@...>Patriot121@...
> <mailto:Patriot121@...> [UHFSDR] wrote:
>
> I Hear by rescind my endorsement of any Via 1620a USB based
> soundcard ....
>
> Though its fine for Rx @ 96Khz .... and cheap, but
>
> Its output Phase error and moderate amplitude error makes it
> horrible for Tx ....
>
> I thought i had developed a fault with my UHFSDR for the last
> 2 months .... even unhooked my DIY amps to investigate (i
> thought they were the problem originally)
>
> This all might be an impedance issue that Lief has pointed to
> .... but im not sure ....
>
> Leif used T pads to reduce the input to the opamps and provide
> a purely resistive load for the soundcard output opamps (if
> they had one) .... I would solely would use a precision SMD
> resistor for left/right channels and try that out in the
> future ...
>
>
> After swapping back in my ole' CM106 based USB soundcard ...
> things went back to normal (good and stable) values for image
> rejection ...
>
>
>
>
>
>
>
>

2175. Re: [UHFSDR] Free Si570's

Yahoo group: UHFSDR
Date: 2016-03-25 21:14:14 UTC
From: Jim Sanford
Topic: 2107 Message: 2175

Dave:
I got my samples, but don't lost ordering data. Can you break the code
on part numbers? I think they assigned unique part numbers for me.
Thanks,
Jim

On 12/29/2015 7:26 PM, Jim Sanford wrote:
> Have a hughes system on the ground. (Their tech support . . . . . so
> replaced with Dish.) Do you have any more info on usable pieces out
> of it???
>
> Jim
>
>
> On 12/29/2015 7:12 PM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>>
>> damn ... 46$ for a grade A
>>
>> iv recently found out that the Hughes net internet sat dishes use a
>> 900Mhz-2.1Ghz Lo ... for 10.7 to 12.75Ghz (with switched 9.75 and
>> 10.6Ghz oscillator) ...
>>
>> Almost an easy get on 10.695 if you have a BPF for 10.695. Use the
>> UHFSDR on its highest freq or its 3rd harmonic (not sure yet) ...
>>
>> ---
>> To: UHFSDR@yahoogroups.com
>> From: UHFSDR@yahoogroups.com
>> Date: Tue, 29 Dec 2015 15:25:46 -0800
>> Subject: [UHFSDR] Free Si570's
>>
>>
>> I checked the SiLabs website earlier and found that they are now
>> offering free samples of the Si570. You get 2 samples of each part
>> number. I ordered 2 grade A LVPECL and 2 grade B LVPECL. I am
>> interested in seeing if the 810 MHz can be raised closer to 900 to
>> permit use of 70cm.
>> I also checked the online prices for ordering and had a pleasant
>> shock. The grade A was $105+ each, they are now $46.65. Digikey
>> also has a limited selection.
>>
>>
>> Dave - WB6DHW
>> <http://wb6dhw.com>
>>

>>
>

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https://www.avast.com/antivirus

2176. Re: [UHFSDR] Free Si570's

Yahoo group: UHFSDR
Date: 2016-03-25 21:30:33 UTC
From: Dave
Topic: 2107 Message: 2176

Jim:
The ordering on my for-sale page also works for looking up a part number. Go to <http://www.silabs.com/products/clocksoscillators/Pages/utilityintro.aspx> then enter your part number starting with 570.

Dave - WB6DHW
<http://wb6dhw.com>

On 3/25/2016 2:14 PM, Jim Sanford wb4gcs@... [UHFSDR] wrote:
>
> Dave:
> I got my samples, but don't lost ordering data. Can you break the
> code on part numbers? I think they assigned unique part numbers for me.
> Thanks,
> Jim
>
>
> On 12/29/2015 7:26 PM, Jim Sanford wrote:
>> Have a hughes system on the ground. (Their tech support . . . . . so
>> replaced with Dish.) Do you have any more info on usable pieces out
>> of it???
>>
>> Jim
>>
>>
>> On 12/29/2015 7:12 PM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>>>
>>> damn ... 46$ for a grade A
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>>> iv recently found out that the Hughes net internet sat dishes use a
>>> 900Mhz-2.1Ghz Lo ... for 10.7 to 12.75Ghz (with switched 9.75 and
>>> 10.6Ghz oscillator) ...
>>>
>>> Almost an easy get on 10.695 if you have a BPF for 10.695. Use the
>>> UHFSDR on its highest freq or its 3rd harmonic (not sure yet) ...
>>>
>>> ---
>>> To: UHFSDR@yahoogroups.com
>>> From: UHFSDR@yahoogroups.com
>>> Date: Tue, 29 Dec 2015 15:25:46 -0800
>>> Subject: [UHFSDR] Free Si570's
>>>
>>>
>>> I checked the SiLabs website earlier and found that they are now

>>> offering free samples of the Si570. You get 2 samples of each part
>>> number. I ordered 2 grade A LVPECL and 2 grade B LVPECL. I am
>>> interested in seeing if the 810 MHz can be raised closer to 900 to
>>> permit use of 70cm.
>>> I also checked the online prices for ordering and had a pleasant
>>> shock. The grade A was $105+ each, they are now $46.65. Digikey
>>> also has a limited selection.
>>>
>>>
>>> Dave - WB6DHW
>>> <http://wb6dhw.com>
>>>
>>
>
>
> <https://www.avast.com/sig-email?utm_medium=email&utm_source=link&utm_campaign=sig-email
&utm_content=emailclient&utm_term=oa-2115-v2-b>
> Virus-free. www.avast.com
> <https://www.avast.com/sig-email?utm_medium=email&utm_source=link&utm_campaign=sig-email
&utm_content=emailclient&utm_term=oa-2115-v2-b>
>
>
>

2177. Re: [UHFSDR] Free Si570's

Yahoo group: UHFSDR
Date: 2016-03-25 21:46:48 UTC
From: Jim Sanford
Topic: 2107 Message: 2177

tHANKS!!

On 3/25/2016 5:30 PM, Dave dave@... [UHFSDR] wrote:
>
> Jim:
> The ordering on my for-sale page also works for looking up a part
> number. Go to
> <http://www.silabs.com/products/clocksoscillators/Pages/utilityintro.aspx>
> then enter your part number starting with 570.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 3/25/2016 2:14 PM, Jim Sanford wb4gcs@... [UHFSDR] wrote:
>>
>> Dave:
>> I got my samples, but don't lost ordering data. Can you break the
>> code on part numbers? I think they assigned unique part numbers for me.
>> Thanks,
>> Jim
>>
>>
>> On 12/29/2015 7:26 PM, Jim Sanford wrote:
>>> Have a hughes system on the ground. (Their tech support . . . . . so
>>> replaced with Dish.) Do you have any more info on usable pieces out
>>> of it???
>>>
>>> Jim
>>>
>>>
>>> On 12/29/2015 7:12 PM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>>>>
>>>> damn ... 46$ for a grade A
>>>>
>>>> iv recently found out that the Hughes net internet sat dishes use a
>>>> 900Mhz-2.1Ghz Lo ... for 10.7 to 12.75Ghz (with switched 9.75 and
>>>> 10.6Ghz oscillator) ...
>>>>
>>>> Almost an easy get on 10.695 if you have a BPF for 10.695. Use the
>>>> UHFSDR on its highest freq or its 3rd harmonic (not sure yet) ...
>>>>
>>>> ---
>>>> To: UHFSDR@yahoogroups.com
>>>> From: UHFSDR@yahoogroups.com
>>>> Date: Tue, 29 Dec 2015 15:25:46 -0800

>>>> Subject: [UHFSDR] Free Si570's
>>>>
>>>>
>>>> I checked the SiLabs website earlier and found that they are now
>>>> offering free samples of the Si570. You get 2 samples of each part
>>>> number. I ordered 2 grade A LVPECL and 2 grade B LVPECL. I am
>>>> interested in seeing if the 810 MHz can be raised closer to 900 to
>>>> permit use of 70cm.
>>>> I also checked the online prices for ordering and had a pleasant
>>>> shock. The grade A was $105+ each, they are now $46.65. Digikey
>>>> also has a limited selection.
>>>>
>>>>
>>>> Dave - WB6DHW
>>>> <http://wb6dhw.com>
>>>>
>>>
>>
>>
>> <https://www.avast.com/sig-email?utm_medium=email&utm_source=link&utm_campaign=sig-emai
l&utm_content=emailclient&utm_term=oa-2115-v2-b>
>> Virus-free. www.avast.com
>> <https://www.avast.com/sig-email?utm_medium=email&utm_source=link&utm_campaign=sig-emai
l&utm_content=emailclient&utm_term=oa-2115-v2-b>
>>
>>
>

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https://www.avast.com/antivirus

2178. ummm ... back up forum mesages ?

Yahoo group: UHFSDR
Date: 2016-04-22 00:04:36 UTC
From: MIKE DURKIN
Topic: 2178 Message: 2178

Im a member of several forums ... yahoo forums ... and one of them has planned on moving -- possibly -- if the yahoo sites go down from a sale or other misshaps ....

Any other forums planning a ship sinking salvage?

2179. Re: [UHFSDR] Free Si570's

Yahoo group: UHFSDR
Date: 2015-12-30 00:26:13 UTC
From: Jim Sanford
Topic: 2107 Message: 2179

Have a hughes system on the ground. (Their tech support . . . . . so replaced with Dish.) Do you have any more info on usable pieces out of it???

Jim

On 12/29/2015 7:12 PM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>
> damn ... 46$ for a grade A
>
> iv recently found out that the Hughes net internet sat dishes use a
> 900Mhz-2.1Ghz Lo ... for 10.7 to 12.75Ghz (with switched 9.75 and
> 10.6Ghz oscillator) ...
>
> Almost an easy get on 10.695 if you have a BPF for 10.695. Use the
> UHFSDR on its highest freq or its 3rd harmonic (not sure yet) ...
>
> ---
> To: UHFSDR@yahoogroups.com
> From: UHFSDR@yahoogroups.com
> Date: Tue, 29 Dec 2015 15:25:46 -0800
> Subject: [UHFSDR] Free Si570's
>
>
> I checked the SiLabs website earlier and found that they are now
> offering free samples of the Si570. You get 2 samples of each part
> number. I ordered 2 grade A LVPECL and 2 grade B LVPECL. I am
> interested in seeing if the 810 MHz can be raised closer to 900 to
> permit use of 70cm.
> I also checked the online prices for ordering and had a pleasant
> shock. The grade A was $105+ each, they are now $46.65. Digikey also
> has a limited selection.
>
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
>

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https://www.avast.com/antivirus

2180. Re: [UHFSDR] Free Si570's

Yahoo group: UHFSDR
Date: 2016-05-29 01:52:55 UTC
From: MIKE DURKIN
Topic: 2107 Message: 2180

Who with info ...

As far as iv seen ... it depends on the filter in it and the oscillator to know what input to use ... I think it's in the range of 888mhz to 1.4ghz

Get Outlook for Android<https://aka.ms/ghei36>

On Sat, May 28, 2016 at 4:00 PM -0700, "Jim Sanford wb4gcs@... [UHFSDR]" <UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>> wrote:

Have a hughes system on the ground. (Their tech support . . . . . so replaced with Dish.) Do you have any more info on usable pieces out of it???

Jim

On 12/29/2015 7:12 PM, MIKE DURKIN Patriot121@...<mailto:Patriot121@...> [UHFSDR] wrote:

damn ... 46$ for a grade A

iv recently found out that the Hughes net internet sat dishes use a 900Mhz-2.1Ghz Lo ... for 10.7 to 12.75Ghz (with switched 9.75 and 10.6Ghz oscillator) ...

Almost an easy get on 10.695 if you have a BPF for 10.695. Use the UHFSDR on its highest freq or its 3rd harmonic (not sure yet) ...

_____
To: UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>
From: UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>
Date: Tue, 29 Dec 2015 15:25:46 -0800
Subject: [UHFSDR] Free Si570's

I checked the SiLabs website earlier and found that they are now offering free samples of the Si570. You get 2 samples of each part number. I ordered 2 grade A LVPECL and 2 grade B LVPECL. I am interested in seeing if the 810 MHz can be raised closer to 900 to permit use of 70cm.
I also checked the online prices for ordering and had a pleasant shock. The grade A was $105+ each, they are now $46.65. Digikey also has a limited selection.

Dave - WB6DHW
<http://wb6dhw.com><http://wb6dhw.com>

[https://ipmcdn.avast.com/images/2016/icons/icon-envelope-tick-round-orange_184x116-v1.png]<https://www.avast.com/sig-email?utm_medium=email&utm_source=link&utm_campaign=sig-email&utm_content=emailclient&utm_term=icon> Virus-free. www.avast.com<https://www.avast.com/sig-email?utm_medium=email&utm_source=link&utm_campaign=sig-email&utm_content=emailclient&utm_term=link>

2181. Re: ummm ... back up forum mesages ?

Yahoo group: UHFSDR
Date: 2016-05-29 04:25:46 UTC
From: vasilyivanenko@...
Topic: 2178 Message: 2181

15 million group members + 10 million Yahoo Groups == OK
V

2182. New Build

Yahoo group: UHFSDR
Date: 2016-05-31 21:26:22 UTC
From: lists@...
Topic: 2182 Message: 2182

I have been lurking here for a few years and considering buying a PCB/mini kit the whole time. I broke down and finally bought them today. I'm looking over the BOM. A few of questions:

Is the download on the site the latest or should I be looking elsewhere?

Any updated part numbers and/or outdated parts that I'll have a tough time finding?

I didn't see the Si570 version spec'ed in the BOM. Can anyone confirm the correct part?

Thanks!
Jason KE4NYV

2183. Re: [UHFSDR] New Build

Yahoo group: UHFSDR
Date: 2016-05-31 21:32:17 UTC
From: MIKE DURKIN
Topic: 2182 Message: 2183

I think if you get all the parts from SilverFox that he has the grade A 1.4Ghz LVDS -- not 100% sure ...

Otherwise ... there are some changes to the parts if you want to cover Hf through alot higher (not in the BOM) ... i can Tx 160M to 70cm ... no problems ...

except i think i have a bad mixer .. but some day ill get round to that ....

Im planning on changing out the Rx Bias-T (as its called) to increase the gain on VHF ... iv got a cluged mess on there and plan on changing to one part from CoilCraft ....

So i guess the question is .... what do you plan on doing with your UHFSDR ?

From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of lists@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Tuesday, May 31, 2016 2:26 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] New Build

I have been lurking here for a few years and considering buying a PCB/mini kit the whole time. I broke down and finally bought them today. I'm looking over the BOM. A few of questions:

Is the download on the site the latest or should I be looking elsewhere?

Any updated part numbers and/or outdated parts that I'll have a tough time finding?

I didn't see the Si570 version spec'ed in the BOM. Can anyone confirm the correct part?

Thanks!

Jason KE4NYV

2184. Re: [UHFSDR] New Build

Yahoo group: UHFSDR
Date: 2016-05-31 21:41:47 UTC
From: lists@...
Topic: 2182 Message: 2184

Good question, Mike! I already have two Peaberry SDRs to cover HF. So I really only want this for the VHF/UHF ranges. 100-500 MHz would be plenty for my use.

Thanks!
Jason KE4NYV

2185. Re: New Build

Yahoo group: UHFSDR
Date: 2016-05-31 21:43:25 UTC
From: lists@...
Topic: 2182 Message: 2185

Also, I didn't see the option to buy the Si570 from Silverfox. I have purchased them in the past from Digikey and I think Mouser. Just wanted to make sure I was getting the correct part. LVDS?

Jason KE4NYV

2186. Re: [UHFSDR] New Build

Yahoo group: UHFSDR
Date: 2016-05-31 22:10:13 UTC
From: MIKE DURKIN
Topic: 2182 Message: 2186

I use now an Odroid-C2, was using an X2 .... might still again ... with the UHFSDR ...

I got the low power ~1W band pass filters for VHF / UHF from HobbyPCB ... i still think they dont have them listed for sale ... you will need to ask WA2EUJ about them ....

From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of lists@ke4nyv.com [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Tuesday, May 31, 2016 2:41 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] New Build

Good question, Mike! I already have two Peaberry SDRs to cover HF. So I really only want this for the VHF/UHF ranges. 100-500 MHz would be plenty for my use.

Thanks!
Jason KE4NYV

2187. Re: [UHFSDR] Re: New Build

Yahoo group: UHFSDR
Date: 2016-05-31 22:21:36 UTC
From: MIKE DURKIN
Topic: 2182 Message: 2187

Your probably thinking of WB6DHW's site ...

Silverfox used to sell a full kit ... but that was a while ago ...

He should pop up here soon enough .... SilverFox = Alan -W6ARH

I have not finalized my change for VHF/UHF performance .... but looks like if you used the same loaded choke from coilcraft and managed to figure out how to get them placed ... (their kinda long)

I have an overload or impedance mismatch in spectrum issue with my Rx -- the 2 parts that i tomb stoned together -- that i should replace with a part from CoilCraft , i hope will solve that minor issue ...

From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of lists@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Tuesday, May 31, 2016 2:43 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Re: New Build

Also, I didn't see the option to buy the Si570 from Silverfox. I have purchased them in the past from Digikey and I think Mouser. Just wanted to make sure I was getting the correct part. LVDS?

Jason KE4NYV

2188. Re: New Build

Yahoo group: UHFSDR
Date: 2016-05-31 22:30:24 UTC
From: lists@...
Topic: 2182 Message: 2188

Just a note on the BOM. The following parts are no longer available or have a high minimum order requirement:

587-2174-1-ND (No substitute found yet)

LP2992AIM5-3.3CT-ND (Replaced by: LP2992AIM5-3.3/NOPBCT-ND)

296-1168-5-ND (Alternate: 74FST3257DR2GOSCT)

Jason KE4NYV

2189. Re: [UHFSDR] Re: New Build

Yahoo group: UHFSDR
Date: 2016-05-31 22:43:24 UTC
From: MIKE DURKIN
Topic: 2182 Message: 2189

Digikey has a min of 1 @ 296-1168-5-ND -- shipping probably insane ...

587-2174-1-ND is a 1uF ceramic capacitor -- just get a mix kit off of ebay .... with the correct size ... valuse can be close, its not all that important -- except for any value in the string from Si570 to the mixers ... paralleled balance must be maintained (well should anyways for UHF)

The 3.3V regulator ... ?? i guess use just about any will work, making sure thats the pins match ....

I doubt that it will be an issue .... ask on the softrock forum too ....

296-1168-5-ND might be a problem ... cant remember where i bought my last replacement -- i bought a few because iv had that go bad twice -- 3rd is doing great. i think i have one left ..... and i think i bought it off of ebay too ... or maybe from Alan, cant remember ... its been good for a few years now ... all accidents (lightning strike near by) ....

First one was terribly microphonic .... second went to lightning .... 3rd been strong ...

From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of lists@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Tuesday, May 31, 2016 3:30 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Re: New Build

Just a note on the BOM. The following parts are no longer available or have a high minimum order requirement:

587-2174-1-ND (No substitute found yet)
LP2992AIM5-3.3CT-ND (Replaced by: LP2992AIM5-3.3/NOPBCT-ND)
296-1168-5-ND (Alternate: 74FST3257DR2GOSCT)

Jason KE4NYV

2190. Re: New Build

Yahoo group: UHFSDR
Date: 2016-05-31 22:57:35 UTC
From: lists@...
Topic: 2182 Message: 2190

>>> Your probably thinking of WB6DHW's site ...

You're correct. That is the site I got the PCB and parts kit from. As for the 587-2174-1-ND, they showed it discontinued, but I could still order what was still in stock.

I found those suitable replacements for the the other two, so I ordered them and I'll give them a shot.

Truth is, I probably already have all of these 0805 passives in stock, but I was just trying to piece together a complete "kit" for myself.

Thanks for the tip so far!

Jason KE4NYV

2191. Re: [UHFSDR] Re: New Build

Yahoo group: UHFSDR
Date: 2016-05-31 23:07:09 UTC
From: MIKE DURKIN
Topic: 2182 Message: 2191

What did you get for L1? ... and your probably going to replace R3 with a choke too ....

From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of lists@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Tuesday, May 31, 2016 3:57 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Re: New Build

>>> Your probably thinking of WB6DHW's site ...

You're correct. That is the site I got the PCB and parts kit from. As for the 587-2174-1-ND, they showed it discontinued, but I could still order what was still in stock.

I found those suitable replacements for the the other two, so I ordered them and I'll give them a shot.

Truth is, I probably already have all of these 0805 passives in stock, but I was just trying to piece together a complete "kit" for myself.

Thanks for the tip so far!

Jason KE4NYV

2192. Re: [UHFSDR] Re: New Build

Yahoo group: UHFSDR
Date: 2016-05-31 23:25:48 UTC
From: lists@...
Topic: 2182 Message: 2192

I ended up getting the part spec'ed in the BOM, even though it's discontinued. Looks like it's a 0806 3.3uH. Still need to place an oder for the Si570 (forgot to add it in), so if you have suggested replacements for L1 and L3, I can order them at the same time.

I plan to solder paste and reflow the whole board in one shot, so I would like to have all of the parts I need on hand.

Jason KE4NYV

2193. Re: [UHFSDR] Re: New Build

Yahoo group: UHFSDR
Date: 2016-06-01 00:00:24 UTC
From: MIKE DURKIN
Topic: 2182 Message: 2193

R3 .. not L3 ..

R3 provides bias for the Rx amp U4 ... iv replaced it with a tomb stone 380uH and 3.3uH (i think)

I replaced my L1 a few times but stoped with a part from CoilCraft -- i dont remember what it was but i did post to the forum that i had 2 parts on the way to test out .... one was a loaded choke and the others was a tapered choke ...

But this was so taht i could use it from HF to UHF ... going with the 3.3uH parts probably do fine --

The other reason to change R3 was because of an upgrade for Rx with a spf5043 ...

From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of lists@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Tuesday, May 31, 2016 4:25 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: New Build

I ended up getting the part spec'ed in the BOM, even though it's discontinued. Looks like it's a 0806 3.3uH. Still need to place an oder for the Si570 (forgot to add it in), so if you have suggested replacements for L1 and L3, I can order them at the same time.

I plan to solder paste and reflow the whole board in one shot, so I would like to have all of the parts I need on hand.

Jason KE4NYV

2194. Re: [UHFSDR] Re: New Build

Yahoo group: UHFSDR
Date: 2016-06-01 01:26:37 UTC
From: Dave
Topic: 2182 Message: 2194

The parts in the BOM should be correct. However, Mouser and DigiKey
from time to time stop carrying particular parts. The 1uF ceramic cap
is nothing special. Should be a minimum of 16V, 25 is better and is 0805
size.
The LP2992 is a low noise 3.3V regulator. The suffix after the 3.3
indicates a different temp range or different shipping package(tape and
reel, bulk, etc).
Mouser has the SN74CBT3257 in stock for $0.74 for quantity 1. The
Digikey 296-15340-1-ND
<http://www.digikey.com/product-detail/en/texas-instruments/SN74CBT3257CDR/296-15340-1-ND/
569694>
should also work. As long as it is a 3257 in the 16 pin SOIC package.
I recommend the LVPECL output option on the Si570. The speed grade
depends on your max desired operating frequency. Above 400 MHz requires
the "A" grade(1.4GHZ). From 130 MHz to 400 MHz a "B" grade(800 MHz)
will work. Below 130 MHz, any grade will work. The UHFSDR will work
with any of the output option EXCEPT CMOS. Other than LVPECL requires a
change in value of some resisters as noted on schematic.
SiLabs was sending out free samples including "A" speed grade. But,
when I tried last week to order a couple more(they send 2), the cart
showed a minimum order of 50 and not free. But, I was able to order 2
free samples of the "B" grade. It is specified to operate to 800 MHz,
but may go higher(I haven't tried it yet). You must sign up at the
SiLabs website and log in to be able to order the samples. You can also
pay for more Si570's from the Silabs website.

Dave - WB6DHW
<http://wb6dhw.com>

On 5/31/2016 3:43 PM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>
> Digikey has a min of 1 @ 296-1168-5-ND -- shipping probably insane ...
>
>
> 587-2174-1-ND is a 1uF ceramic capacitor -- just get a mix kit off of
> ebay .... with the correct size ... valuse can be close, its not all
> that important -- except for any value in the string from Si570 to the
> mixers ... paralleled balance must be maintained (well should anyways
> for UHF)
>
>
> The 3.3V regulator ... ?? i guess use just about any will work, making
> sure thats the pins match ....
>
>

> I doubt that it will be an issue .... ask on the softrock forum too ....
>
>
> 296-1168-5-ND might be a problem ... cant remember where i bought my
> last replacement -- i bought a few because iv had that go bad twice --
> 3rd is doing great. i think i have one left ..... and i think i bought
> it off of ebay too ... or maybe from Alan, cant remember ... its been
> good for a few years now ... all accidents (lightning strike near by) ....
>
>
> First one was terribly microphonic .... second went to lightning ....
> 3rd been strong ...
>
>
> ---
> *From:* UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of
> lists@... [UHFSDR] <UHFSDR@yahoogroups.com>
> *Sent:* Tuesday, May 31, 2016 3:30 PM
> *To:* UHFSDR@yahoogroups.com
> *Subject:* [UHFSDR] Re: New Build
>
> Just a note on the BOM. The following parts are no longer available
> or have a high minimum order requirement:
>
>
> 587-2174-1-ND (No substitute found yet)
> LP2992AIM5-3.3CT-ND (Replaced by: LP2992AIM5-3.3/NOPBCT-ND)
> 296-1168-5-ND (Alternate: 74FST3257DR2GOSCT)
>
> Jason KE4NYV
>

2195. Re: [UHFSDR] Re: New Build

Yahoo group: UHFSDR
Date: 2016-06-01 01:30:57 UTC
From: Dave
Topic: 2182 Message: 2195

Jason:
Digikey lists the 586-2174-1-ND(3.3uH coil, srf of 140 MHz) as in stock and $0.31 for quantity 1.

Dave - WB6DHW
<http://wb6dhw.com>

On 5/31/2016 3:30 PM, lists@... [UHFSDR] wrote:
>
> Just a note on the BOM. The following parts are no longer available
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> 587-2174-1-ND (No substitute found yet)
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> 296-1168-5-ND (Alternate: 74FST3257DR2GOSCT)
>
> Jason KE4NYV
>

2196. Re: [UHFSDR] Re: New Build

Yahoo group: UHFSDR
Date: 2016-06-01 10:21:26 UTC
From: Sid Boyce
Topic: 2182 Message: 2196

It was a very long time ago admittedly.

The 2 free LVPECL A samples I got, the first died after a month, the second was DOA as was a third free sample sent me by GI1CET.

The first I got working fully was a full spec "A" sent me by George Boudreau.
The second UHFSDR also used a bought si570-A LVPECL.

In summary -- 3 free samples BAD, 2 bought OK.
73 ... Sid.

On 01/06/16 02:26, Dave dave@... [UHFSDR] wrote:
>
> The parts in the BOM should be correct. However, Mouser and DigiKey
> from time to time stop carrying particular parts. The 1uF ceramic cap
> is nothing special. Should be a minimum of 16V, 25 is better and is
> 0805 size.
> The LP2992 is a low noise 3.3V regulator. The suffix after the 3.3
> indicates a different temp range or different shipping package(tape
> and reel, bulk, etc).
> Mouser has the SN74CBT3257 in stock for $0.74 for quantity 1. The
> Digikey 296-15340-1-ND
> <http://www.digikey.com/product-detail/en/texas-instruments/SN74CBT3257CDR/296-15340-1-ND/569694>
> should also work. As long as it is a 3257 in the 16 pin SOIC package.
> I recommend the LVPECL output option on the Si570. The speed grade
> depends on your max desired operating frequency. Above 400 MHz
> requires the "A" grade(1.4GHZ). From 130 MHz to 400 MHz a "B"
> grade(800 MHz) will work. Below 130 MHz, any grade will work. The
> UHFSDR will work with any of the output option EXCEPT CMOS. Other
> than LVPECL requires a change in value of some resisters as noted on
> schematic.
> SiLabs was sending out free samples including "A" speed grade. But,
> when I tried last week to order a couple more(they send 2), the cart
> showed a minimum order of 50 and not free. But, I was able to order 2
> free samples of the "B" grade. It is specified to operate to 800 MHz,
> but may go higher(I haven't tried it yet). You must sign up at the
> SiLabs website and log in to be able to order the samples. You can
> also pay for more Si570's from the Silabs website.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 5/31/2016 3:43 PM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>>

>> Digikey has a min of 1 @ 296-1168-5-ND -- shipping probably insane ...
>>
>>
>> 587-2174-1-ND is a 1uF ceramic capacitor -- just get a mix kit off of
>> ebay .... with the correct size ... valuse can be close, its not all
>> that important -- except for any value in the string from Si570 to
>> the mixers ... paralleled balance must be maintained (well should
>> anyways for UHF)
>>
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>> The 3.3V regulator ... ?? i guess use just about any will work,
>> making sure thats the pins match ....
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>>
>> I doubt that it will be an issue .... ask on the softrock forum too ....
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>> 296-1168-5-ND might be a problem ... cant remember where i bought my
>> last replacement -- i bought a few because iv had that go bad twice
>> -- 3rd is doing great. i think i have one left ..... and i think i
>> bought it off of ebay too ... or maybe from Alan, cant remember ...
>> its been good for a few years now ... all accidents (lightning strike
>> near by) ....
>>
>>
>> First one was terribly microphonic .... second went to lightning ....
>> 3rd been strong ...
>>
>>
>> ---
>> *From:* UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of
>> lists@... [UHFSDR] <UHFSDR@yahoogroups.com>
>> *Sent:* Tuesday, May 31, 2016 3:30 PM
>> *To:* UHFSDR@yahoogroups.com
>> *Subject:* [UHFSDR] Re: New Build
>>
>> Just a note on the BOM. The following parts are no longer available
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>>
>>
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>> 296-1168-5-ND (Alternate: 74FST3257DR2GOSCT)
>>
>> Jason KE4NYV
>
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

2197. Re: [UHFSDR] Re: New Build

Yahoo group: UHFSDR
Date: 2016-06-01 12:27:42 UTC
From: lists@...
Topic: 2182 Message: 2197

Dave, Sorry, but I'm a bit confused. You mentioned you "recommend" the LVPECL version, but further down mentioned that the CMOS will not work. So I'm guessing LVPECL is my only option?

So far I'm coming up short on finding the LVPECL 1.4GHz (or even 810 MHZ) version anywhere for sale where you can buy just one. I thought DigiKey had me covered, but they only have the CMOS up to 160 MHz and the LVPECL up to 280 MHz available. Everything else is 50 piece minimum.

I have to admit, I used to be up to date on the Si570 when I was playing with SDR's heavily a few years ago, but now I feel like I have forgotten everything. Relearning this stuff all over is a bitch ;)

As for the other parts, I think i found suitable replacements.

Thanks!

Jason KE4NYV

2198. Re: New Build

Yahoo group: UHFSDR
Date: 2016-06-01 12:50:20 UTC
From: John Levreault
Topic: 2182 Message: 2198

Re: Digikey 587-2174-1-ND

Digikey says that they have 4839 in stock and will sell 1 at a time. I don't know why this is listed as a problem part.

John NB1I

2199. Re: New Build

Yahoo group: UHFSDR
Date: 2016-06-01 13:06:20 UTC
From: lists@...
Topic: 2182 Message: 2199

John, I agree according to what you found. However, when I added the part to the BOM on DigiKey, it was flagged as being discontinued and didn't show a suitable replacement. The flip side was, they actually have them in stock and allowed me to order, so I ended up ordering that part in the long run.

Jason KE4NYV

2200. Re: [UHFSDR] Re: New Build

Yahoo group: UHFSDR
Date: 2016-06-01 19:23:11 UTC
From: Dave
Topic: 2182 Message: 2200

Jason:
Other output choices are LVDS and CML. The CMOS does not work
because the I/Q generator utilizes the 2 outputs that are 180 degress
out of phase and the CMOS only has one output.

Dave - WB6DHW
<http://wb6dhw.com>

On 6/1/2016 5:27 AM, lists@... [UHFSDR] wrote:
>
> Dave, Sorry, but I'm a bit confused. You mentioned you "recommend"
> the LVPECL version, but further down mentioned that the CMOS will not
> work. So I'm guessing LVPECL is my only option?
>
>
> So far I'm coming up short on finding the LVPECL 1.4GHz (or even 810
> MHZ) version anywhere for sale where you can buy just one. I thought
> DigiKey had me covered, but they only have the CMOS up to 160 MHz and
> the LVPECL up to 280 MHz available. Everything else is 50 piece minimum.
>
> I have to admit, I used to be up to date on the Si570 when I was
> playing with SDR's heavily a few years ago, but now I feel like I have
> forgotten everything. Relearning this stuff all over is a bitch ;)
>
> As for the other parts, I think i found suitable replacements.
>
> Thanks!
>
> Jason KE4NYV
>

2201. Re: New Build

Yahoo group: UHFSDR
Date: 2016-06-02 14:27:01 UTC
From: John Levreault
Topic: 2182 Message: 2201

Digikey has a habit of sending emails alerting customers that parts are obsolete. Yet you can frequently still buy them, and there are plenty in stock! I contacted the manufacturer on a critical part that I use, and they said that the part was readily available and would be for the foreseeable future. So I'm confused. Caveat emptor I suppose.

John NB1I

2202. Re: New Build

Yahoo group: UHFSDR
Date: 2016-06-09 21:07:33 UTC
From: lists@...
Topic: 2182 Message: 2202

Yes, I agree and I have seen that with both DigiKey and Mouser.

Well, I have all parts in hand, but I am striking out on an Si570 that will cover the UHF range. Si will not sell me the version I need in single quantity or even sample me one.

Does anyone have any suggestions of where I can get one? Does anyone have an extra they are willing to part with for a fair price?

Thanks!
Jason KE4NYV
www.ke4nyv.com

2203. Re: [UHFSDR] Re: New Build

Yahoo group: UHFSDR
Date: 2016-06-09 21:31:40 UTC
From: MIKE DURKIN
Topic: 2182 Message: 2203

This is my first hit ...

but i dont know what a CML is .... or if its useful in a UHFSDR ...

http://www.sdr-kits.net/Webshop/products.php?54&cPath=7&osCsid=5n0iq8e9b4116dqf55jelsukn5

[http://www.sdr-kits.net/Webshop/images/products/product_info/si570.jpg]<http://www.sdr-kits.net/Webshop/products.php?54&cPath=7&osCsid=5n0iq8e9b4116dqf55jelsukn5>

Silicon Labs Si570 DBA000107DG CML (1417 MHz Max) - SDR-Kits<http://www.sdr-kits.net/Webshop/products.php?54&cPath=7&osCsid=5n0iq8e9b4116dqf55jelsukn5>
www.sdr-kits.net
Silicon Labs Si570 BBB000141DG LVDS (945 MHz Max) Silicon Labs Si570 BBC000141DG LVDS (280 MHz Max) Silicon Labs Si570 DBA000107DG CML (1417 MHz Max)

Ill keep looking ...

_____
From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of lists@...m [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Thursday, June 9, 2016 2:07 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Re: New Build

Yes, I agree and I have seen that with both DigiKey and Mouser.

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Thanks!
Jason KE4NYV
www.ke4nyv.com

2204. Re: [UHFSDR] Re: New Build

Yahoo group: UHFSDR
Date: 2016-06-09 21:35:33 UTC
From: MIKE DURKIN
Topic: 2182 Message: 2204

Did Alan - W6ARH have any to sell ?

From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of MIKE DURKIN Patriot121@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Thursday, June 9, 2016 2:31 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: New Build

This is my first hit ...

but i dont know what a CML is .... or if its useful in a UHFSDR ...

http://www.sdr-kits.net/Webshop/products.php?54&cPath=7&osCsid=5n0iq8e9b4116dqf55jelsukn5

[http://www.sdr-kits.net/Webshop/images/products/product_info/si570.jpg]<http://www.sdr-kits.net/Webshop/products.php?54&cPath=7&osCsid=5n0iq8e9b4116dqf55jelsukn5>

Silicon Labs Si570 DBA000107DG CML (1417 MHz Max) - SDR-Kits<http://www.sdr-kits.net/Webshop/products.php?54&cPath=7&osCsid=5n0iq8e9b4116dqf55jelsukn5>
www.sdr-kits.net
Silicon Labs Si570 BBB000141DG LVDS (945 MHz Max) Silicon Labs Si570 BBC000141DG LVDS (280 MHz Max) Silicon Labs Si570 DBA000107DG CML (1417 MHz Max)

Ill keep looking ...

From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of lists@ke4nyv.com [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Thursday, June 9, 2016 2:07 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Re: New Build

Yes, I agree and I have seen that with both DigiKey and Mouser.

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Thanks!
Jason KE4NYV
www.ke4nyv.com

2205. RE: [UHFSDR] Re: New Build

Yahoo group: UHFSDR
Date: 2016-06-09 22:20:18 UTC
From: Silverfox
Topic: 2182 Message: 2205
Attachments: 4 described; binary payloads are missing from this source WARC

I don't have any of the models for UHFSDR left but I do have a few Si530s and several lesser si570's.

Alan - W6ARH

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
Sent: Thursday, June 9, 2016 2:36 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: New Build

Did Alan - W6ARH have any to sell ?

From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of MIKE DURKIN Patriot121@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Thursday, June 9, 2016 2:31 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: New Build

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but i dont know what a CML is .... or if its useful in a UHFSDR ...

http://www.sdr-kits.net/Webshop/products.php?54 <http://www.sdr-kits.net/Webshop/products.php?54&cPath=7&osCsid=5n0iq8e9b4116dqf55jelsukn5> &cPath=7&osCsid=5n0iq8e9b4116dqf55jelsukn5

<http://www.sdr-kits.net/Webshop/products.php?54&cPath=7&osCsid=5n0iq8e9b4116dqf55jelsukn5> Image removed by sender.

<http://www.sdr-kits.net/Webshop/products.php?54&cPath=7&osCsid=5n0iq8e9b4116dqf55jelsukn5> Silicon Labs Si570 DBA000107DG CML (1417 MHz Max) - SDR-Kits

www.sdr-kits.net

Silicon Labs Si570 BBB000141DG LVDS (945 MHz Max) Silicon Labs Si570 BBC000141DG LVDS (280 MHz Max) Silicon Labs Si570 DBA000107DG CML (1417 MHz Max)

Ill keep looking ...

From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of lists@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Thursday, June 9, 2016 2:07 PM
To: UHFSDR@yahoogroups.com

Subject: [UHFSDR] Re: New Build

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Does anyone have any suggestions of where I can get one? Does anyone have an extra they are willing to part with for a fair price?

Thanks!
Jason KE4NYV
www.ke4nyv.com

2206. Re: [UHFSDR] Re: New Build

Yahoo group: UHFSDR
Date: 2016-06-10 00:08:29 UTC
From: MIKE DURKIN
Topic: 2182 Message: 2206
Attachments: 1 described; binary payloads are missing from this source WARC

hummm .. ill double check what i have .... i think i sold all mine a few years ago ....

There's gota be a place to get a single class "A" Si570 these days ...

From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of 'Silverfox' alan.r.hill@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Thursday, June 9, 2016 3:20 PM
To: UHFSDR@yahoogroups.com
Subject: RE: [UHFSDR] Re: New Build

I don't have any of the models for UHFSDR left but I do have a few Si530s and several lesser si570's.
Alan - W6ARH

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Sent: Thursday, June 9, 2016 2:36 PM
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Silicon Labs Si570 BBB000141DG LVDS (945 MHz Max) Silicon Labs Si570 BBC000141DG LVDS (280 MHz Max) Silicon Labs Si570 DBA000107DG CML (1417 MHz Max)

Ill keep looking ...

From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of lists@... [UHFSDR]

<UHFSDR@yahoogroups.com>
Sent: Thursday, June 9, 2016 2:07 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Re: New Build

Yes, I agree and I have seen that with both DigiKey and Mouser.

Well, I have all parts in hand, but I am striking out on an Si570 that will cover the UHF range. Si will not sell me the version I need in single quantity or even sample me one.

Does anyone have any suggestions of where I can get one? Does anyone have an extra they are willing to part with for a fair price?

Thanks!
Jason KE4NYV
www.ke4nyv.com

2207. Re: [UHFSDR] Re: New Build

Yahoo group: UHFSDR
Date: 2016-06-10 01:51:23 UTC
From: lists@...
Topic: 2182 Message: 2207

Thanks for checking, guys!

All I have on hand are a few 570CAC000141DG's and those are CMOS and only good for 10-160 MHz

My main use for this SDR will be for the 400-500 MHz range, to listen to DMR and other digital modes through DSD+. At least that is my plan.

Jason KE4NYV
www.ke4nyv.com

2208. Re: [UHFSDR] Re: New Build

Yahoo group: UHFSDR
Date: 2016-06-10 02:21:10 UTC
From: Dave
Topic: 2182 Message: 2208

CML stands for Current Mode Logic. It is a different output drive circuit. It will work on the UHFSDR. The pull-up/down resisters on the output of the Si570 would not be needed and a .1uF cap would couple the signals to the Flip Flops.

Dave - WB6DHW
<http://wb6dhw.com>

On 6/9/2016 2:31 PM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>
> This is my first hit ...
>
> but i dont know what a CML is .... or if its useful in a UHFSDR ...
>
>
>
http://www.sdr-kits.net/Webshop/products.php?54&cPath=7&osCsid=5n0iq8e9b4116dqf55jelsukn5
>
> <http://www.sdr-kits.net/Webshop/products.php?54&cPath=7&osCsid=5n0iq8e9b4116dqf55jelsuk
n5>
>
> Silicon Labs Si570 DBA000107DG CML (1417 MHz Max) - SDR-Kits
> <http://www.sdr-kits.net/Webshop/products.php?54&cPath=7&osCsid=5n0iq8e9b4116dqf55jelsuk
n5>
> www.sdr-kits.net
> Silicon Labs Si570 BBB000141DG LVDS (945 MHz Max) Silicon Labs Si570
> BBC000141DG LVDS (280 MHz Max) Silicon Labs Si570 DBA000107DG CML
> (1417 MHz Max)
>
>
> Ill keep looking ...
>
>
>
> ---
> *From:* UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of
> lists@... [UHFSDR] <UHFSDR@yahoogroups.com>
> *Sent:* Thursday, June 9, 2016 2:07 PM
> *To:* UHFSDR@yahoogroups.com
> *Subject:* [UHFSDR] Re: New Build
>
> Yes, I agree and I have seen that with both DigiKey and Mouser.
>
> Well, I have all parts in hand, but I am striking out on an Si570 that
> will cover the UHF range. Si will not sell me the version I need in

> single quantity or even sample me one.
>
> Does anyone have any suggestions of where I can get one? Does anyone
> have an extra they are willing to part with for a fair price?
>
> Thanks!
> Jason KE4NYV
> www.ke4nyv.com
>
>

2209. Re: [UHFSDR] Re: New Build

Yahoo group: UHFSDR
Date: 2016-06-10 02:29:13 UTC
From: MIKE DURKIN
Topic: 2182 Message: 2209

If you don't mind, sensitivity can be reduced some ... the 945Mhz Si570 could be used on the 3rd harmonic ....

For FM it might not matter too much ... SSB id go with the CML i guess ... cost comparing all the way ...

I could try my Class A on a 3rd harmonic with a local repeater and see .... the only plot that iv seen is for the class A harmonics -- the 3rd harmonic was 5db down if i remember ... thats about ~1.5 S units lower signal

Do you have any Filters yet?

From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of lists@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Thursday, June 9, 2016 6:51 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: New Build

Thanks for checking, guys!

All I have on hand are a few 570CAC000141DG's and those are CMOS and only good for 10-160 MHz

My main use for this SDR will be for the 400-500 MHz range, to listen to DMR and other digital modes through DSD+. At least that is my plan.

Jason KE4NYV
www.ke4nyv.com

2210. Re: [UHFSDR] Re: New Build

Yahoo group: UHFSDR
Date: 2016-06-10 02:58:12 UTC
From: Dave
Topic: 2182 Message: 2210

Keep checking at Silabs.com. The seem to change back and forth on
available of samples and single units.

Dave - WB6DHW
<http://wb6dhw.com>

On 6/9/2016 6:51 PM, lists@... [UHFSDR] wrote:
>
> Thanks for checking, guys!
>
>
> All I have on hand are a few 570CAC000141DG's and those are CMOS and
> only good for 10-160 MHz
>
> My main use for this SDR will be for the 400-500 MHz range, to listen
> to DMR and other digital modes through DSD+. At least that is my plan.
>
> Jason KE4NYV
> www.ke4nyv.com
>

2211. RE: [UHFSDR] Re: New Build

Yahoo group: UHFSDR
Date: 2016-06-10 04:20:07 UTC
From: Silverfox
Topic: 2182 Message: 2211

Check out DV4mini.

From: UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
Sent: Thursday, June 9, 2016 6:51 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: New Build

Thanks for checking, guys!

All I have on hand are a few 570CAC000141DG's and those are CMOS and only good for 10-160 MHz

My main use for this SDR will be for the 400-500 MHz range, to listen to DMR and other digital modes through DSD+. At least that is my plan.

Jason KE4NYV

www.ke4nyv.com

2212. Re: [UHFSDR] Re: New Build

Yahoo group: UHFSDR
Date: 2016-06-10 06:35:16 UTC
From: MIKE DURKIN
Topic: 2182 Message: 2212

I think you could get away with a cheaper Si570 and operate on the 5th harmonic .... 200mhz from the Si570 for 500mhz

Im not sure if the Cmos version would work on the UHFSDR ... but im just trying to come up with alternatives ....

Its about a 12db down from main ....

_____
From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of lists@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Thursday, June 9, 2016 6:51 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: New Build

Thanks for checking, guys!

All I have on hand are a few 570CAC000141DG's and those are CMOS and only good for 10-160 MHz

My main use for this SDR will be for the 400-500 MHz range, to listen to DMR and other digital modes through DSD+. At least that is my plan.

Jason KE4NYV
www.ke4nyv.com

2213. RE: [UHFSDR] Re: New Build

Yahoo group: UHFSDR
Date: 2016-06-13 13:47:48 UTC
From: lists@...
Topic: 2182 Message: 2213

I already have a DV4Mini and a DVMega and I'll have a BlueSpot coming when those come on the market. I want the UHF SDR for more than DMR. It was just one of the perks, since I don't have a Whistler scanner yet that supports DMR.

Thanks!
Jason KE4NYV

2214. RE: [UHFSDR] Re: New Build

Yahoo group: UHFSDR
Date: 2016-07-07 07:59:19 UTC
From: dave@...
Topic: 2182 Message: 2214

Silicon Labs is again offering free samples of 570AAA devices. Don't know for how long this time. I just ordered 2 samples a few minutes ago. I think you need to register and sign in to see the "order samples" . You can also buy them online from SiLabs at $48 and change each. They used to be $100+

Dave - WB6DHW.

2215. RE: [UHFSDR] Re: New Build

Yahoo group: UHFSDR
Date: 2016-07-07 08:08:28 UTC
From: Marc OLANIE
Topic: 2182 Message: 2215
Attachments: 2 described; binary payloads are missing from this source WARC

Many thanks Dave
I sent a sample order yesterday.
Marc f6itu

De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
Envoyé : jeudi 7 juillet 2016 09:59
À : UHFSDR@yahoogroups.com
Objet : RE: [UHFSDR] Re: New Build

Silicon Labs is again offering free samples of 570AAA devices. Don't know for how long this time. I just ordered 2 samples a few minutes ago. I think you need to register and sign in to see the "order samples" . You can also buy them online from SiLabs at $48 and change each. They used to be $100+

Dave - WB6DHW.

2216. Free Raspberry PI 3

Yahoo group: UHFSDR
Date: 2016-08-25 05:12:17 UTC
From: dave@...
Topic: 2216 Message: 2216

For today and the next 2 days Arrow.com is giving away a Raspberry PI 3 with a $100 order. I needed to order mica caps anyway for my MPLPF kit, so ordered $150 worth and my Raspberry PI 3 will be on the way next week!

Dave - WB6DHW
<http://wb6dhw.com>

2217. Re: Free Raspberry PI 3

Yahoo group: UHFSDR
Date: 2016-08-25 14:27:02 UTC
From: john4guys
Topic: 2216 Message: 2217

Nice Dave!

John Forguites N1EEV FN34koN1EEVJF@GMAIL.COM john4guys@aol.com n1eev@arrl.net

2218. Webpage error

Yahoo group: UHFSDR
Date: 2016-09-07 20:37:04 UTC
From: Dave
Topic: 2218 Message: 2218

I recently made a small change on the for_sale page. Apparently, when Open Office Writer saved the file, it messed up the Paypal links. Whatever was ordered showed as $20 and showed as the CY7C68013A! I have put the old page back until I can get the new one corrected. The only difference is the new page did not have a webpage for Chris for board assemble.

Dave - WB6DHW
<http://wb6dhw.com>

2219. Si570 Kits

Yahoo group: UHFSDR
Date: 2016-09-10 05:19:22 UTC
From: Dave
Topic: 2219 Message: 2219

I just sent my last 3 Si570 boards out. I have ordered more PCB's. The lead time is approximately 2 weeks. Any orders received for the Si570 kit will be held until the boards arrive .

Dave - WB6DHW

<http://wb6dhw.com>

2220. Re: [UHFSDR] Si570 Kits

Yahoo group: UHFSDR
Date: 2016-09-10 10:20:32 UTC
From: Jim Sanford
Topic: 2219 Message: 2220

Dave:

I was unaware of this kit. Can you point me to info?

Thanks & 73,

Jim

wb4gcs@...

On 9/10/2016 1:19 AM, Dave dave@... [UHFSDR] wrote:
>
> I just sent my last 3 Si570 boards out. I have ordered more PCB's.
> The lead time is approximately 2 weeks. Any orders received for the
> Si570 kit will be held until the boards arrive .
>
> Dave - WB6DHW
>
> <http://wb6dhw.com>
>
>

This email has been checked for viruses by Avast antivirus software.
https://www.avast.com/antivirus

2221. Re: [UHFSDR] Si570 Kits

Yahoo group: UHFSDR
Date: 2016-09-10 19:19:08 UTC
From: Dave
Topic: 2219 Message: 2221

Jim:
The kit is at
<http://wb6dhw.com/For_Sale.html#Si570>

Dave - WB6DHW
<http://wb6dhw.com>

On 9/10/2016 3:20 AM, Jim Sanford wb4gcs@... [UHFSDR] wrote:
>
> Dave:
>
> I was unaware of this kit. Can you point me to info?
>
> Thanks & 73,
>
> Jim
>
> wb4gcs@...
>
>
>
> On 9/10/2016 1:19 AM, Dave dave@... [UHFSDR] wrote:
>>
>> I just sent my last 3 Si570 boards out. I have ordered more PCB's.
>> The lead time is approximately 2 weeks. Any orders received for the
>> Si570 kit will be held until the boards arrive .
>>
>> Dave - WB6DHW
>>
>> <http://wb6dhw.com>
>>
>
>
>
> ---
> Avast logo <https://www.avast.com/antivirus>
>
> This email has been checked for viruses by Avast antivirus software.
> www.avast.com <https://www.avast.com/antivirus>
>
>
>

2222. Re: [UHFSDR] Si570 Kits

Yahoo group: UHFSDR
Date: 2016-09-10 20:11:55 UTC
From: Jim Sanford
Topic: 2219 Message: 2222

Dave:

Thanks!

I had no idea that they existed -- just what I need for my samples!!

I'll be ordering two when I get finished traveling!

Thanks & 73,

Jim

wb4gcs@...

On 9/10/2016 3:19 PM, Dave dave@... [UHFSDR] wrote:
>
> Jim:
> The kit is at
> <http://wb6dhw.com/For_Sale.html#Si570>
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 9/10/2016 3:20 AM, Jim Sanford wb4gcs@... [UHFSDR] wrote:
>>
>> Dave:
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>> I was unaware of this kit. Can you point me to info?
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>> Thanks & 73,
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>> Jim
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>> On 9/10/2016 1:19 AM, Dave dave@... [UHFSDR] wrote:
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>>> The lead time is approximately 2 weeks. Any orders received for the
>>> Si570 kit will be held until the boards arrive .
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>>> Dave - WB6DHW
>>>
>>> <http://wb6dhw.com>
>>>

```
>>
>>
>>
>> ----------------------------------------------------------------------
>> Avast logo <https://www.avast.com/antivirus>
>>
>> This email has been checked for viruses by Avast antivirus software.
>> www.avast.com <https://www.avast.com/antivirus>
>>
>>
>
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---
This email has been checked for viruses by Avast antivirus software.
https://www.avast.com/antivirus
```

2223. Si570 and the harmonics testing

Yahoo group: UHFSDR
Date: 2016-09-14 00:58:36 UTC
From: MIKE DURKIN
Topic: 2223 Message: 2223

Does any one have a Si570 class A AND a spectrum analyzer that covers over 15Ghz ?

Id like to know how much signal level is their around 10ghz when si570 is set to its max freq setting ... probably best to set the si570 to 942.545Mhz ... the rest of the range falls outside the ham 10ghz area (i think)

2224. Re: [UHFSDR] Si570 and the harmonics testing

Yahoo group: UHFSDR
Date: 2016-09-14 03:04:37 UTC
From: Jean-Paul Louis
Topic: 2223 Message: 2224

Mike,

The harmonics of a perfect square wave are:

http://mathworld.wolfram.com/images/equations/FourierSeriesSquareWave/NumberedEquation3.gif

proportional to 1/n where n is an odd harmonic, so 9th and 11th harmonics will be stronger than 10th harmonic. So 20 x log10(1/n) = -20 x log10(n). log10(10) = 1, so attenuation will be around 20dB, less for 9th harmonic, more for 11th harmonic.
LVDS swing is 700mV pp, so your harmonics will be around 70mV pp.

Just my $0.02,
Jean-Paul
N1JPL

> On Sep 13, 2016, at 8:58 PM, MIKE DURKIN Patriot121@... [UHFSDR] <UHFSDR@yahoogroups.com> wrote:
>
>
> Does any one have a Si570 class A AND a spectrum analyzer that covers over 15Ghz ?
>
>
>
> Id like to know how much signal level is their around 10ghz when si570 is set to its max freq setting ... probably best to set the si570 to 942.545Mhz ... the rest of the range falls outside the ham 10ghz area (i think)
>
>
>

2225. Re: [UHFSDR] Si570 and the harmonics testing

Yahoo group: UHFSDR
Date: 2016-09-14 03:31:41 UTC
From: MIKE DURKIN
Topic: 2223 Message: 2225

yea ,, thats why i went with the 11th harmonic of 942.545Mhz .... the only plot of a spectrum analyzer iv seen is on CliftonLaboratories ... the the Si570 was set to 100mhz with a fair harmonic at 900mhz ...

I want to build a microwave beacon ....

From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of Jean-Paul Louis louijp@yahoo.com [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Tuesday, September 13, 2016 8:04 PM
To: UHFSDR@yahoogroups.com
Cc: AQRP AQRP
Subject: Re: [UHFSDR] Si570 and the harmonics testing

Mike,

The harmonics of a perfect square wave are:

http://mathworld.wolfram.com/images/equations/FourierSeriesSquareWave/NumberedEquation3.gif

proportional to 1/n where n is an odd harmonic, so 9th and 11th harmonics will be stronger than 10th harmonic. So 20 x log10(1/n) = -20 x log10(n). log10(10) = 1, so attenuation will be around 20dB, less for 9th harmonic, more for 11th harmonic.
LVDS swing is 700mV pp, so your harmonics will be around 70mV pp.

Just my $0.02,
Jean-Paul
N1JPL

> On Sep 13, 2016, at 8:58 PM, MIKE DURKIN Patriot121@... [UHFSDR] <UHFSDR@yahoogroups.com> wrote:
>
>
> Does any one have a Si570 class A AND a spectrum analyzer that covers over 15Ghz ?
>
>
>
> Id like to know how much signal level is their around 10ghz when si570 is set to its max freq setting ... probably best to set the si570 to 942.545Mhz ... the rest of the range falls outside the ham 10ghz area (i think)
>
>
>

2226. Re: [UHFSDR] Si570 and the harmonics testing

Yahoo group: UHFSDR
Date: 2016-09-14 03:43:04 UTC
From: MIKE DURKIN
Topic: 2223 Message: 2226

the 11th should be 40.512980452Vp-p ?

From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of Jean-Paul Louis louijp@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Tuesday, September 13, 2016 8:04 PM
To: UHFSDR@yahoogroups.com
Cc: AQRP AQRP
Subject: Re: [UHFSDR] Si570 and the harmonics testing

Mike,

The harmonics of a perfect square wave are:

http://mathworld.wolfram.com/images/equations/FourierSeriesSquareWave/NumberedEquation3.gif

proportional to 1/n where n is an odd harmonic, so 9th and 11th harmonics will be stronger than 10th harmonic. So 20 x log10(1/n) = -20 x log10(n). log10(10) = 1, so attenuation will be around 20dB, less for 9th harmonic, more for 11th harmonic.
LVDS swing is 700mV pp, so your harmonics will be around 70mV pp.

Just my $0.02,
Jean-Paul
N1JPL

> On Sep 13, 2016, at 8:58 PM, MIKE DURKIN Patriot121@msn.com [UHFSDR] <UHFSDR@yahoogroups.com> wrote:
>
>
> Does any one have a Si570 class A AND a spectrum analyzer that covers over 15Ghz ?
>
>
>
> Id like to know how much signal level is their around 10ghz when si570 is set to its max freq setting ... probably best to set the si570 to 942.545Mhz ... the rest of the range falls outside the ham 10ghz area (i think)
>
>
>

2227. Re: [UHFSDR] Si570 and the harmonics testing

Yahoo group: UHFSDR
Date: 2016-09-14 04:50:03 UTC
From: Jean-Paul Louis
Topic: 2223 Message: 2227

Nope.

You went in the wrong direction.

700mVpp for the square —> 700/11 mV for the 11th Harmonic or 63.636364mV

with the right filter and an amplifier, you get a clean signal.

Jean-Paul
N1JPL

> On Sep 13, 2016, at 11:43 PM, MIKE DURKIN Patriot121@... [UHFSDR]
<UHFSDR@yahoogroups.com> wrote:
>
>
> the 11th should be 40.512980452Vp-p ?
>
>
>
> From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of Jean-Paul Louis
louijp@...[UHFSDR] <UHFSDR@yahoogroups.com>
> Sent: Tuesday, September 13, 2016 8:04 PM
> To: UHFSDR@yahoogroups.com
> Cc: AQRP AQRP
> Subject: Re: [UHFSDR] Si570 and the harmonics testing
>
>
> Mike,
>
> The harmonics of a perfect square wave are:
>
> http://mathworld.wolfram.com/images/equations/FourierSeriesSquareWave/NumberedEquation3.
gif
>
> proportional to 1/n where n is an odd harmonic, so 9th and 11th harmonics will be
stronger than 10th harmonic. So 20 x log10(1/n) = -20 x log10(n). log10(10) = 1, so
attenuation will be around 20dB, less for 9th harmonic, more for 11th harmonic.
> LVDS swing is 700mV pp, so your harmonics will be around 70mV pp.
>
> Just my $0.02,
> Jean-Paul
> N1JPL
>
> > On Sep 13, 2016, at 8:58 PM, MIKE DURKIN Patriot121@... [UHFSDR]
<UHFSDR@yahoogroups.com> wrote:
> >

> >
> > Does any one have a Si570 class A AND a spectrum analyzer that covers over 15Ghz ?
> >
> >
> >
> > Id like to know how much signal level is their around 10ghz when si570 is set to its max freq setting ... probably best to set the si570 to 942.545Mhz ... the rest of the range falls outside the ham 10ghz area (i think)
> >
> >
> >
>
>
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>

2228. UHFSDR implementing G3RUH

Yahoo group: UHFSDR
Date: 2016-10-02 22:52:15 UTC
From: ekram67852@...
Topic: 2228 Message: 2228

Hello,

I'm new to radio and I was considering learning more about radio by trying to implement my own setup. I was lucky to find the UHFSDR online. My question is whether the design can be used for a G3RUH modulation scheme. Right now, I see that it works using CW and SSB.

2229. Re: [UHFSDR] UHFSDR implementing G3RUH

Yahoo group: UHFSDR
Date: 2016-10-02 23:15:45 UTC
From: MIKE DURKIN
Topic: 2228 Message: 2229

what ever your soundcard and sdr program can produce in an I/Q type system can be done ...

freq range of UHFSDR with a class A Si570 is 1.69Mhz to 512Mhz (and some what higher) ....

Lowpass filter on the UHFSDR is the limiting factor in BW for Rx / Tx -- 120Khz is enough for you?

packet radio is still limited to 3khz of bandwidth ....

From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of ekram67852@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Sunday, October 2, 2016 3:52 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] UHFSDR implementing G3RUH

Hello,

I'm new to radio and I was considering learning more about radio by trying to implement my own setup. I was lucky to find the UHFSDR online. My question is whether the design can be used for a G3RUH modulation scheme. Right now, I see that it works using CW and SSB.

2230. Re: [UHFSDR] UHFSDR implementing G3RUH

Yahoo group: UHFSDR
Date: 2016-10-02 23:36:47 UTC
From: Matthew Pitts
Topic: 2228 Message: 2230

G3RUH modulation could in theory be done in the software driving the UHFSDR, but you still need the client software that can communicate with the radio software. I don't know of too many applications that use TCP/IP to do that.

Matthew Pitts
N8OHU

On October 2, 2016 7:15:45 PM EDT, "MIKE DURKIN Patriot121@... [UHFSDR]" <UHFSDR@yahoogroups.com> wrote:
>what ever your soundcard and sdr program can produce in an I/Q type
>system can be done ...
>
>freq range of UHFSDR with a class A Si570 is 1.69Mhz to 512Mhz (and
>some what higher) ....
>
>
>Lowpass filter on the UHFSDR is the limiting factor in BW for Rx / Tx
>-- 120Khz is enough for you?
>
>
>packet radio is still limited to 3khz of bandwidth ....
>
>
>_____
>From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of
>ekram67852@... [UHFSDR] <UHFSDR@yahoogroups.com>
>Sent: Sunday, October 2, 2016 3:52 PM
>To: UHFSDR@yahoogroups.com
>Subject: [UHFSDR] UHFSDR implementing G3RUH
>
>
>
>Hello,
>
>
>I'm new to radio and I was considering learning more about radio by
>trying to implement my own setup. I was lucky to find the UHFSDR
>online. My question is whether the design can be used for a G3RUH
>modulation scheme. Right now, I see that it works using CW and SSB.

--
Sent from my Android device with K-9 Mail. Please excuse my brevity.

2231. USB/LPT

Yahoo group: UHFSDR
Date: 2016-10-05 09:05:28 UTC
From: dombaines@...
Topic: 2231 Message: 2231

Hi,

Has anyone used the device from Henrick USB-zu-Parallel-Umsetzer https://www-user.tu-chemnitz.de/~heha/basteln/PC/USB2LPT/ with this?

My old PC WITH an LPT port finally bit the dust so got to sort out an alternative option when using with PC.

72

Dom
M1KTA

2232. RE: [UHFSDR] USB/LPT

Yahoo group: UHFSDR
Date: 2016-10-05 09:24:39 UTC
From: Marc OLANIE
Topic: 2231 Message: 2232

Hi Dom

Never heard of anyone using the Henrick adapter with a UHFSDR, but it gave good results interfacing computers with Scotty’s Modular Spectrum analyzer (MSA)

BTW, did you know that Dave WB6DHW has exactly the very same interface ?
http://wb6dhw.com/HSUSB.html
(but different firmware)
There is also a lot of CY7C68013A based boards made in China and sold on eBay (but many of them are selling “out of specs” components)

The “true parallel firmware” seems to be here
https://www-user.tu-chemnitz.de/~heha/basteln/PC/Programmiergeräte/DataIO%202700/#4
on Henrick’s website.

73’
Marc f6itu

De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
Envoyé : mercredi 5 octobre 2016 11:05
À : UHFSDR@yahoogroups.com
Objet : [UHFSDR] USB/LPT

Hi,

Has anyone used the device from Henrick
USB-zu-Parallel-Umsetzer<https://www-user.tu-chemnitz.de/~heha/basteln/PC/USB2LPT/> with this?

My old PC WITH an LPT port finally bit the dust so got to sort out an alternative option when using with PC.

72

Dom

M1KTA

2233. Re: [UHFSDR] USB/LPT

Yahoo group: UHFSDR
Date: 2016-10-05 12:21:34 UTC
From: MIKE DURKIN
Topic: 2231 Message: 2233

I use a qrp2000 and use vox to key ....

Get Outlook for Android<https://aka.ms/ghei36>

On Wed, Oct 5, 2016 at 2:05 AM -0700, "dombaines@... [UHFSDR]" <UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>> wrote:

Hi,

Has anyone used the device from Henrick USB-zu-Parallel-Umsetzer<https://www-user.tu-chemnitz.de/~heha/basteln/PC/USB2LPT/> with this?

My old PC WITH an LPT port finally bit the dust so got to sort out an alternative option when using with PC.

72

Dom

M1KTA

2234. RE: [UHFSDR] USB/LPT

Yahoo group: UHFSDR
Date: 2016-10-05 13:38:25 UTC
From: dombaines@...
Topic: 2231 Message: 2234

Thanks yes aware of the wd6dhw thing but the software has long gone. (Cypress USB uStudio).

BTW I used henricks adapter with a minivna1 (the really old lpt version).

Dom

---In UHFSDR@yahoogroups.com, <Marc.olanie@...> wrote :

Hi Dom

Never heard of anyone using the Henrick adapter with a UHFSDR, but it gave good results interfacing computers with Scotty’s Modular Spectrum analyzer (MSA)

BTW, did you know that Dave WB6DHW has exactly the very same interface ?
http://wb6dhw.com/HSUSB.html http://wb6dhw.com/HSUSB.html
(but different firmware)
There is also a lot of CY7C68013A based boards made in China and sold on eBay (but many of them are selling “out of specs” components)

The “true parallel firmware” seems to be here
https://www-user.tu-chemnitz.de/~heha/basteln/PC/Programmiergeräte/DataIO%202700/#4
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De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
Envoyé : mercredi 5 octobre 2016 11:05
À : UHFSDR@yahoogroups.com
Objet : [UHFSDR] USB/LPT

Hi,

Has anyone used the device from Henrick USB-zu-Parallel-Umsetzer
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My old PC WITH an LPT port finally bit the dust so got to sort out an alternative option when using with PC.

72

Dom
M1KTA

2235. Re: [UHFSDR] USB/LPT

Yahoo group: UHFSDR
Date: 2016-10-05 13:38:59 UTC
From: dombaines@...
Topic: 2231 Message: 2235

So the PE0.... AVR Si570 control software?

2236. Re: [UHFSDR] USB/LPT

Yahoo group: UHFSDR
Date: 2016-10-05 14:54:15 UTC
From: MIKE DURKIN
Topic: 2231 Message: 2236

Depends on your OS ...
Linux is almost plug and play
Window requires a signed driver/DLL

Then what ever SDR I/Q program ....

There is a bit more to it when using the uhfsdr to get the correct frequency .... just a few commands sent to the AVR to change the set point device by's ...

Get Outlook for Android<https://aka.ms/ghei36>

On Wed, Oct 5, 2016 at 6:39 AM -0700, "dombaines@... [UHFSDR]" <UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>> wrote:

So the PE0.... AVR Si570 control software?

2237. Re: [UHFSDR] UHFSDR implementing G3RUH

Yahoo group: UHFSDR
Date: 2016-10-07 21:50:06 UTC
From: <ekram67852@...>
Topic: 2228 Message: 2237

Hello,
Its good to hear that we can implement G3RUH in theory. I noticed that you mentioned that we will need client software that can communicate with the radio. Would you know of any applications that use CCSDS or AX25.
Best,

On Sunday, October 2, 2016 7:16 PM, "MIKE DURKIN Patriot121@... [UHFSDR]" <UHFSDR@yahoogroups.com> wrote:

  what ever your soundcard and sdr program can produce in an I/Q type system can be done ...
freq range of UHFSDR with a class A Si570 is 1.69Mhz to 512Mhz (and some what higher) ....
Lowpass filter on the UHFSDR is the limiting factor in BW for Rx / Tx -- 120Khz is enough for you?
packet radio is still limited to 3khz of bandwidth ....

From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of ekram67852@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Sunday, October 2, 2016 3:52 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] UHFSDR implementing G3RUH Hello,
I'm new to radio and I was considering learning more about radio by trying to implement my own setup. I was lucky to find the UHFSDR online. My question is whether the design can be used for a G3RUH modulation scheme. Right now, I see that it works using CW and SSB.

2238. Re: [UHFSDR] UHFSDR implementing G3RUH

Yahoo group: UHFSDR
Date: 2016-10-07 22:11:54 UTC
From: MIKE DURKIN
Topic: 2228 Message: 2238

direwolf and others ...

search for soundcard modem

From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of ekram67852@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Friday, October 7, 2016 2:50 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] UHFSDR implementing G3RUH

Hello,

Its good to hear that we can implement G3RUH in theory. I noticed that you mentioned that we will need client software that can communicate with the radio. Would you know of any applications that use CCSDS or AX25.

Best,

On Sunday, October 2, 2016 7:16 PM, "MIKE DURKIN Patriot121@... [UHFSDR]" <UHFSDR@yahoogroups.com> wrote:

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Lowpass filter on the UHFSDR is the limiting factor in BW for Rx / Tx -- 120Khz is enough for you?

packet radio is still limited to 3khz of bandwidth ....

From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of ekram67852@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Sunday, October 2, 2016 3:52 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] UHFSDR implementing G3RUH

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2239. Re: UHFSDR implementing G3RUH

Yahoo group: UHFSDR
Date: 2016-10-07 22:26:53 UTC
From: ekram67852@...
Topic: 2228 Message: 2239

Hello,

How are you. Plese ignore the previous question (regarding ax25 and ccsdc - it was a poor question). The client software we were intending to use was a highspeed soundmodem (U7ZHO). This software does can implement our modulation scheme (G3RUH). Based on my readings, it appears that it compatible with a Windows OS. Have you any experience with soundmodem? To interface with the UHFSDR, I believe we would need a USBI2C device. Also, have you heard of a device called USBSDR. I've also come across this during my serach to find of means of interfacing a Windows OS to a UHFSDR. Would you know the difference between the two.

Hope to hear from you soon,
Best,

2240. Re: [UHFSDR] Re: UHFSDR implementing G3RUH

Yahoo group: UHFSDR
Date: 2016-10-07 23:05:05 UTC
From: MIKE DURKIN
Topic: 2228 Message: 2240

you could use a Via1630/1620 (96khz @ 2 channel) based USB sound device to the UHFSDR or higher bit rate,

Any Si570 controller you want -- i use a QRP2000 ... there are others out there, or get your own AVR and program it yourself.

In order to use most SDR hardware and packet radio, you will need an intermediate program to reconstitute the I/Q audio streams into something that the packet radio can use --- and vice versa.

I use linux systems and an addition to the interface between the digital radio program and the SDR i/q radio program i use a audio linking FAKE soundcard -- called snd-aloop. Its not implemented in Linux kernel any more but can be built since its still in the kernel source code.

in windows i think there is a program used as well (virtual audio cable i think) -- paid.

From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of ekram67852@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Friday, October 7, 2016 3:26 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Re: UHFSDR implementing G3RUH

Hello,

How are you. Plese ignore the previous question (regarding ax25 and ccsdc - it was a poor question). The client software we were intending to use was a highspeed soundmodem (U7ZHO). This software does can implement our modulation scheme (G3RUH). Based on my readings, it appears that it compatible with a Windows OS. Have you any experience with soundmodem? To interface with the UHFSDR, I believe we would need a USBI2C device. Also, have you heard of a device called USBSDR. I've also come across this during my serach to find of means of interfacing a Windows OS to a UHFSDR. Would you know the difference between the two.

Hope to hear from you soon,
Best,

2241. RE: [UHFSDR] Re: UHFSDR implementing G3RUH

Yahoo group: UHFSDR
Date: 2016-10-08 10:16:08 UTC
From: Marc OLANIE
Topic: 2228 Message: 2241

Hi
VB Cable is a free Windows alternative to VAC (I use it with OpenHPSDR and my "audio board", FA66 or SDR-Widget)
http://vb-audio.pagesperso-orange.fr/Cable/
very efficient, compatible with 192kHz boards.
It works perfectly with SSTV or RTTY, Hellschreiber, PSK or JT decoding/encoding software.
I see no reason why Packet shouldn't work.

OZ7HO software could gives good results (But I must admit, I never played packet radio with any of my SDR)
http://uz7.ho.ua/packetradio.htm
73'
Marc f6itu

De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
Envoyé : samedi 8 octobre 2016 01:05
À : UHFSDR@yahoogroups.com
Objet : Re: [UHFSDR] Re: UHFSDR implementing G3RUH

you could use a Via1630/1620 (96khz @ 2 channel) based USB sound device to the UHFSDR or higher bit rate,

Any Si570 controller you want -- i use a QRP2000 ... there are others out there, or get your own AVR and program it yourself.

In order to use most SDR hardware and packet radio, you will need an intermediate program to reconstitute the I/Q audio streams into something that the packet radio can use --- and vice versa.

I use linux systems and an addition to the interface between the digital radio program and the SDR i/q radio program i use a audio linking FAKE soundcard -- called snd-aloop. Its not implemented in Linux kernel any more but can be built since its still in the kernel source code.

in windows i think there is a program used as well (virtual audio cable i think) -- paid.

From: UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>
<UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>> on behalf of
ekram67852@...<mailto:ekram67852@...> [UHFSDR]
<UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>>
Sent: Friday, October 7, 2016 3:26 PM
To: UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>
Subject: [UHFSDR] Re: UHFSDR implementing G3RUH

Hello,

How are you. Plese ignore the previous question (regarding ax25 and ccsdc - it was a poor question). The client software we were intending to use was a highspeed soundmodem (U7ZHO). This software does can implement our modulation scheme (G3RUH). Based on my readings, it appears that it compatible with a Windows OS. Have you any experience with soundmodem? To interface with the UHFSDR, I believe we would need a USBI2C device. Also, have you heard of a device called USBSDR. I've also come across this during my serach to find of means of interfacing a Windows OS to a UHFSDR. Would you know the difference between the two.

Hope to hear from you soon,
Best,

2242. operating on a harmoic

Yahoo group: UHFSDR
Date: 2016-10-22 17:44:32 UTC
From: MIKE DURKIN
Topic: 2242 Message: 2242

I cant quite rap my head around this thought yet ....

When operating on a harmonic .. lets say iv got the uhfsdr set to 48.96Mhz and i'm Rx'ing a signal or Tx'ing a signal ... and i have a bandpass filter for 2M (144mhz --> 148mhz) ...

if the audio edge is lowest at +6Khz and has a bandwidth of 3khz ... making its bandwidth edges 6khz and 9khz ....

is the 3rd harmonic modulated signal now 9khz wide or is it still 3khz? ...

2243. Re: operating on a harmoic

Yahoo group: UHFSDR
Date: 2016-10-22 17:50:35 UTC
From: MIKE DURKIN
Topic: 2242 Message: 2243

Im going to guess its still 3khz wide because the modulating signal is mixed with the 49Mhz signal and also the 3rd harmonic of 146.88Mhz ...

The harmonic is present before the mixer, not made from the mixer ....

Is there also products from the mixing of the 48.96Mhz being added or subtracted to the 146.88Mhz signal ?

_____
From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of MIKE DURKIN Patriot121@msn.com [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Saturday, October 22, 2016 10:44 AM
To: UHFSDR UHFSDR
Subject: [UHFSDR] operating on a harmoic

I cant quite rap my head around this thought yet ....

When operating on a harmonic .. lets say iv got the uhfsdr set to 48.96Mhz and i'm Rx'ing a signal or Tx'ing a signal ... and i have a bandpass filter for 2M (144mhz --> 148mhz) ...

if the audio edge is lowest at +6Khz and has a bandwidth of 3khz ... making its bandwidth edges 6khz and 9khz ....

is the 3rd harmonic modulated signal now 9khz wide or is it still 3khz? ...

2244. a splendid dinner

Yahoo group: UHFSDR
Date: 2016-10-31 01:43:22 UTC
From: cpod
Topic: 2244 Message: 2244
Attachments: 1 described; binary payloads are missing from this source WARC

Greetings,

We have recently had a splendid dinner with my family in a great place, just take a look <http://elisbett.jimcornett.com/e4iwi/6>

My best to you, cpod

2245. working

Yahoo group: UHFSDR
Date: 2016-11-02 06:42:50 UTC
From: MIKE DURKIN
Topic: 2245 Message: 2245

Ok .. i now have Rx of VHF packet radio with my UHFSDR (sdr) running ubuntu14 and Quisk-4.1.1

I had to use another soundcard because i simply couldn't get Tx audio through the snd-aloop ....

Im using Linpac with Direwolf and about 3/4 of heard signals are decoded ... some are terribly distorted or i guess too week.

Thanks to those that helped .... ill still keep plugging along ... maybe i will eventually figure out why snd-loop is uni-directional on my Arm-v8.

Direwolf was set to plughw:3,0 -- hw:3,0 was not working for some reason .... but oh well ...

2246. GPIO CM-108

Yahoo group: UHFSDR
Date: 2016-11-07 20:20:42 UTC
From: MIKE DURKIN
Topic: 2246 Message: 2246

What the heck .. reading through some of the documentation for direwolf .. i came across enabling PTT through a CM-108 GPIO...

Are you kidding me ?!?!?!? how long was that done?

Wonder if it works on linux too .... lol !!!!!

Has any one here done this ?

its a DMK URI mod for a CM-108 !!!!

https://github.com/wb2osz/direwolf/blob/master/ptt.c

[https://avatars2.githubusercontent.com/u/6499991?v=3&s=400]<https://github.com/wb2osz/direwolf/blob/master/ptt.c>

direwolf/ptt.c at master · wb2osz/direwolf · GitHub<https://github.com/wb2osz/direwolf/blob/master/ptt.c>
github.com
direwolf - Dire Wolf is a software "soundcard" modem/TNC and APRS encoder/decoder. It can be used stand-alone to observe APRS traffic, as a digipeater, APRStt ...

2247. Re: [softrock40] GPIO CM-108

Yahoo group: UHFSDR
Date: 2016-11-08 01:02:40 UTC
From: Sid Boyce
Topic: 2246 Message: 2247

Hi Mike,
Looks like it should work but I don't see a board on offer.
https://blog.wq.lc/new-design-of-my-ptt-soundcard/ posted 20 Sept. 2015.
73 ... Sid.

On 07/11/16 20:20, MIKE DURKIN Patriot121@... [softrock40] wrote:
>
> What the heck .. reading through some of the documentation for
> direwolf .. i came across enabling PTT through a CM-108 GPIO...
>
>
> Are you kidding me ?!?!?!? how long was that done?
>
>
> Wonder if it works on linux too .... lol !!!!!
>
>
> Has any one here done this ?
>
>
> its a DMK URI mod for a CM-108 !!!!
>
>
> https://github.com/wb2osz/direwolf/blob/master/ptt.c
>
> <https://github.com/wb2osz/direwolf/blob/master/ptt.c>
>
> direwolf/ptt.c at master ? wb2osz/direwolf ? GitHub
> <https://github.com/wb2osz/direwolf/blob/master/ptt.c>
> github.com
> direwolf - Dire Wolf is a software "soundcard" modem/TNC and APRS
> encoder/decoder. It can be used stand-alone to observe APRS traffic,
> as a digipeater, APRStt ...
>
>
>
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

2248. power

Yahoo group: UHFSDR
Date: 2016-11-10 03:54:32 UTC
From: MIKE DURKIN
Topic: 2248 Message: 2248

Has anyone seen 50mW from the UHFSDR ?

Im going to guess no, kinda ... its there .. but spread out through the harmonics too ....

2249. Re: [UHFSDR] power

Yahoo group: UHFSDR
Date: 2016-11-10 04:01:57 UTC
From: Dave Miller
Topic: 2248 Message: 2249

Mike ,
I was playing with mine today. If you get above -10dBm mine gets nasty.
Dave
VE7HR/VE7PKE

Sent from my iPhone

> On Nov 9, 2016, at 7:54 PM, MIKE DURKIN Patriot121@... [UHFSDR] <UHFSDR@yahoogroups.com> wrote:
>
> Has anyone seen 50mW from the UHFSDR ?
>
>
> Im going to guess no, kinda ... its there .. but spread out through the harmonics too ....
>

2250. Re: [UHFSDR] power

Yahoo group: UHFSDR
Date: 2016-11-10 04:08:29 UTC
From: MIKE DURKIN
Topic: 2248 Message: 2250

What frequency and what Bias T are you using ?

From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of Dave Miller ve7pke@...
[UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Wednesday, November 9, 2016 8:01 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] power

Mike ,
I was playing with mine today. If you get above -10dBm mine gets nasty.
Dave
VE7HR/VE7PKE

Sent from my iPhone

On Nov 9, 2016, at 7:54 PM, MIKE DURKIN Patriot121@...<mailto:Patriot121@...> [UHFSDR]
<UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>> wrote:

Has anyone seen 50mW from the UHFSDR ?

Im going to guess no, kinda ... its there .. but spread out through the harmonics too ....

2251. Re: [UHFSDR] power

Yahoo group: UHFSDR
Date: 2016-11-10 04:16:44 UTC
From: Dave Miller
Topic: 2248 Message: 2251

Mike ,
That was either 14MHz or 144.200. CW. Excited by STM42-SDR. No bias T. Plugged directly into HP70000 Spec Analyzer. I can get much more out but it get grungy.
Let me know where you want me to measure it and I will put it on the list of things to do.
Dave
VE7HR

Sent from my iPhone

> On Nov 9, 2016, at 8:08 PM, MIKE DURKIN Patriot121@... [UHFSDR] <UHFSDR@yahoogroups.com> wrote:
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>> Im going to guess no, kinda ... its there .. but spread out through the harmonics too ....
>
>

2252. Re: [UHFSDR] power

Yahoo group: UHFSDR
Date: 2016-11-10 04:29:52 UTC
From: MIKE DURKIN
Topic: 2248 Message: 2252

I'm sorry ....
There is a bias T on the board ... if you have not changed it out ... then it's the original (a choke).

I changed mine out to get power up to 512mhz ....

You can kinda see my mods on my qrz page ... soon to do another to where R3 is -- well that's been replaced too ... but soon to be done again with a conical bias T from (shoot I forget who)

Get Outlook for Android<https://aka.ms/ghei36>

On Wed, Nov 9, 2016 at 8:16 PM -0800, "Dave Miller ve7pke@... [UHFSDR]" <UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>> wrote:

Mike ,
That was either 14MHz or 144.200. CW. Excited by STM42-SDR. No bias T. Plugged directly into HP70000 Spec Analyzer. I can get much more out but it get grungy.
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From: UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com> <UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>> on behalf of Dave Miller ve7pke@...<mailto:ve7pke@...> [UHFSDR] <UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>>
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Has anyone seen 50mW from the UHFSDR ?

Im going to guess no, kinda ... its there .. but spread out through the harmonics too ....

2253. Re: [UHFSDR] power

Yahoo group: UHFSDR
Date: 2016-11-10 04:34:56 UTC
From: Dave Miller
Topic: 2248 Message: 2253

Thanks Mike I will look at it.
Mine will end up as a uWave IF so 0dBm should be fine.
If you want any measurements just ask
Thanks
Dave

Sent from my iPhone

> On Nov 9, 2016, at 8:29 PM, MIKE DURKIN Patriot121@... [UHFSDR] <UHFSDR@yahoogroups.com> wrote:
>
> I'm sorry ....
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>
> I changed mine out to get power up to 512mhz ....
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> Mike ,
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> Let me know where you want me to measure it and I will put it on the list of things to do.
> Dave
> VE7HR
>
> Sent from my iPhone
>
> On Nov 9, 2016, at 8:08 PM, MIKE DURKIN Patriot121@... [UHFSDR] <UHFSDR@yahoogroups.com> wrote:
>
>>
>> What frequency and what Bias T are you using ?
>>

>>
>> From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of Dave Miller ve7pke@... [UHFSDR] <UHFSDR@yahoogroups.com>
>> Sent: Wednesday, November 9, 2016 8:01 PM
>> To: UHFSDR@yahoogroups.com
>> Subject: Re: [UHFSDR] power
>>
>>
>> Mike ,
>> I was playing with mine today. If you get above -10dBm mine gets nasty.
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>>> Has anyone seen 50mW from the UHFSDR ?
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>>>
>>> Im going to guess no, kinda ... its there .. but spread out through the harmonics too ....
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>
>

2254. Re: [UHFSDR] power

Yahoo group: UHFSDR
Date: 2016-11-10 04:34:02 UTC
From: MIKE DURKIN
Topic: 2248 Message: 2254

It was coil craft lol

Get Outlook for Android<https://aka.ms/ghei36>

On Wed, Nov 9, 2016 at 8:16 PM -0800, "Dave Miller ve7pke@... [UHFSDR]" <UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>> wrote:

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Im going to guess no, kinda ... its there .. but spread out through the harmonics too ....

2255. Re: [UHFSDR] power

Yahoo group: UHFSDR
Date: 2016-11-10 04:36:29 UTC
From: MIKE DURKIN
Topic: 2248 Message: 2255

Which Si570 do you have?

Get Outlook for Android<https://aka.ms/ghei36>

On Wed, Nov 9, 2016 at 8:35 PM -0800, "Dave Miller ve7pke@... [UHFSDR]" <UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>> wrote:

Thanks Mike I will look at it.
Mine will end up as a uWave IF so 0dBm should be fine.
If you want any measurements just ask
Thanks
Dave

Sent from my iPhone

On Nov 9, 2016, at 8:29 PM, MIKE DURKIN Patriot121@...<mailto:Patriot121@...> [UHFSDR] <UHFSDR@yahoogroups.com<mailto:UHFSDR@...m>> wrote:

I'm sorry ....
There is a bias T on the board ... if you have not changed it out ... then it's the original (a choke).

I changed mine out to get power up to 512mhz ....

You can kinda see my mods on my qrz page ... soon to do another to where R3 is -- well that's been replaced too ... but soon to be done again with a conical bias T from (shoot I forget who)

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2256. Re: [UHFSDR] power

Yahoo group: UHFSDR
Date: 2016-11-10 04:46:53 UTC
From: Dave Miller
Topic: 2248 Message: 2256

Hi Mike,
Direct is fine with me.
Thanks I shall digest stuff.
I bought my kit from The Silverfox. I will get that detail next time I am in the shack.
Thanks.
Dave
Sent from my iPhone

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>>>> Im going to guess no, kinda ... its there .. but spread out through the harmonics too ....
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>>
>
>

2257. Re: [UHFSDR] power

Yahoo group: UHFSDR
Date: 2016-11-10 04:51:50 UTC
From: MIKE DURKIN
Topic: 2248 Message: 2257

If it was with a year or so ... then it's a class A ... can be set to 1.46ghz ... so top end is 703.XXXmhz ... I forget how high it will go ...

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On Wed, Nov 9, 2016 at 8:47 PM -0800, "Dave Miller ve7pke@... [UHFSDR]" <UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>> wrote:

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Which Si570 do you have?

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If you want any measurements just ask
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Has anyone seen 50mW from the UHFSDR ?

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2258. Re: [UHFSDR] power

Yahoo group: UHFSDR
Date: 2016-11-10 04:55:26 UTC
From: Dave Miller
Topic: 2248 Message: 2258

It was several years ago. Got it early on in the STM32-SDR project. Our current software only allows operation to 450 or so. Easy to change but right now only care about 2M.
Look forward to seeing what you are going.
Dave
Sent from my iPhone

> On Nov 9, 2016, at 8:51 PM, MIKE DURKIN Patriot121@... [UHFSDR] <UHFSDR@yahoogroups.com> wrote:
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> Get Outlook for Android
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>
>>
>> Which Si570 do you have?
>>
>> Get Outlook for Android
>>
>>
>>
>> On Wed, Nov 9, 2016 at 8:35 PM -0800, "Dave Miller ve7pke@... [UHFSDR]" <UHFSDR@yahoogroups.com> wrote:
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>> Thanks
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>
>

2259. Re: [UHFSDR] power

Yahoo group: UHFSDR
Date: 2016-11-10 05:08:58 UTC
From: MIKE DURKIN
Topic: 2248 Message: 2259

I built an amp from parts off of ebay .. the amp is a RA60H1317M1A module ...

Hardest part is finding a Low pass filter .!!!!!

_____
From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of Dave Miller ve7pke@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Wednesday, November 9, 2016 8:55 PM
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Sent from my iPhone

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2260. Re: [UHFSDR] power

Yahoo group: UHFSDR
Date: 2016-11-10 05:14:32 UTC
From: MIKE DURKIN
Topic: 2248 Message: 2260

The stripline bandpass filter i got from Jim WA2EUJ ... They are saposed to have them for sale in their store -- a kit of 3, 2m 1.25 and 70cm .... i still dont see them though ... drop him a line and ask for a quote .... good rejection and low loss -- around 1db insertion loss ...

From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of MIKE DURKIN Patriot121@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Wednesday, November 9, 2016 9:08 PM
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I changed mine out to get power up to 512mhz ....

You can kinda see my mods on my qrz page ... soon to do another to where R3 is -- well that's been replaced too ... but soon to be done again with a conical bias T from (shoot I forget who)

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On Wed, Nov 9, 2016 at 8:16 PM -0800, "Dave Miller ve7pke@...<mailto:ve7pke@...> [UHFSDR]" <UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>> wrote:

Mike ,
That was either 14MHz or 144.200. CW. Excited by STM42-SDR. No bias T. Plugged directly into HP70000 Spec Analyzer. I can get much more out but it get grungy.
Let me know where you want me to measure it and I will put it on the list of things to do.
Dave
VE7HR

Sent from my iPhone

On Nov 9, 2016, at 8:08 PM, MIKE DURKIN Patriot121@...<mailto:Patriot121@...> [UHFSDR] <UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>> wrote:

What frequency and what Bias T are you using ?

_____
From: UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com> <UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>> on behalf of Dave Miller ve7pke@...m<mailto:ve7pke@...> [UHFSDR] <UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>>

Sent: Wednesday, November 9, 2016 8:01 PM
To: UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>
Subject: Re: [UHFSDR] power

Mike ,
I was playing with mine today. If you get above -10dBm mine gets nasty.
Dave
VE7HR/VE7PKE

Sent from my iPhone

On Nov 9, 2016, at 7:54 PM, MIKE DURKIN Patriot121@...<mailto:Patriot121@...> [UHFSDR] <UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>> wrote:

Has anyone seen 50mW from the UHFSDR ?

Im going to guess no, kinda ... its there .. but spread out through the harmonics too ....

2261. Re: [UHFSDR]

Yahoo group: UHFSDR
Date: 2016-11-10 05:34:50 UTC
From: MIKE DURKIN
Topic: 2248 Message: 2261

There it is ... the 2M bandpass filter .... its good for 5w (should still be)

https://www.hobbypcb.com/products/uhf-vhf-radio/144mhz-band-pass-filter

UHF/VHF Radio : 144MHz Band Pass
Filter<https://www.hobbypcb.com/products/uhf-vhf-radio/144mhz-band-pass-filter>
www.hobbypcb.com
HobbyPCB is your source for innovative amateur radio products. We design and manufacturer the HARDROCK-50 HF Power Amp with integrated antenna tuner (ATU).

_____
From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of Dave Miller ve7pke@...
[UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Wednesday, November 9, 2016 8:55 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] power

It was several years ago. Got it early on in the STM32-SDR project. Our current software only allows operation to 450 or so. Easy to change but right now only care about 2M.
Look forward to seeing what you are going.
Dave
Sent from my iPhone

On Nov 9, 2016, at 8:51 PM, MIKE DURKIN Patriot121@...<mailto:Patriot121@...> [UHFSDR] <UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>> wrote:

If it was with a year or so ... then it's a class A ... can be set to 1.46ghz ... so top end is 703.XXXmhz ... I forget how high it will go ...

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On Wed, Nov 9, 2016 at 8:47 PM -0800, "Dave Miller ve7pke@...<mailto:ve7pke@...> [UHFSDR]" <UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>> wrote:

Hi Mike,
Direct is fine with me.
Thanks I shall digest stuff.
I bought my kit from The Silverfox. I will get that detail next time I am in the shack.
Thanks.
Dave
Sent from my iPhone

On Nov 9, 2016, at 8:36 PM, MIKE DURKIN Patriot121@...<mailto:Patriot121@...> [UHFSDR] <UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>> wrote:

Which Si570 do you have?

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On Wed, Nov 9, 2016 at 8:35 PM -0800, "Dave Miller ve7pke@...<mailto:ve7pke@...> [UHFSDR]" <UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>> wrote:

Thanks Mike I will look at it.
Mine will end up as a uWave IF so 0dBm should be fine.
If you want any measurements just ask
Thanks
Dave

Sent from my iPhone

On Nov 9, 2016, at 8:29 PM, MIKE DURKIN Patriot121@...<mailto:Patriot121@...> [UHFSDR] <UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>> wrote:

I'm sorry ....
There is a bias T on the board ... if you have not changed it out ... then it's the original (a choke).

I changed mine out to get power up to 512mhz ....

You can kinda see my mods on my qrz page ... soon to do another to where R3 is -- well that's been replaced too ... but soon to be done again with a conical bias T from (shoot I forget who)

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On Wed, Nov 9, 2016 at 8:16 PM -0800, "Dave Miller ve7pke@...<mailto:ve7pke@...> [UHFSDR]" <UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>> wrote:

Mike ,
That was either 14MHz or 144.200. CW. Excited by STM42-SDR. No bias T. Plugged directly into HP70000 Spec Analyzer. I can get much more out but it get grungy.
Let me know where you want me to measure it and I will put it on the list of things to do.
Dave
VE7HR

Sent from my iPhone

On Nov 9, 2016, at 8:08 PM, MIKE DURKIN Patriot121@...<mailto:Patriot121@...> [UHFSDR] <UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>> wrote:

What frequency and what Bias T are you using ?

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From: UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com> <UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>> on behalf of Dave Miller ve7pke@...<mailto:ve7pke@...> [UHFSDR] <UHFSDR@yahoogroups.com<mailto:UHFSDR@...m>>
Sent: Wednesday, November 9, 2016 8:01 PM
To: UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>
Subject: Re: [UHFSDR] power

Mike ,
I was playing with mine today. If you get above -10dBm mine gets nasty.
Dave
VE7HR/VE7PKE

Sent from my iPhone

On Nov 9, 2016, at 7:54 PM, MIKE DURKIN Patriot121@...<mailto:Patriot121@...> [UHFSDR] <UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>> wrote:

Has anyone seen 50mW from the UHFSDR ?

Im going to guess no, kinda ... its there .. but spread out through the harmonics too ....

2262. Operation on 3rd/5th harmonic

Yahoo group: UHFSDR
Date: 2016-11-14 15:49:54 UTC
From: MIKE DURKIN
Topic: 2262 Message: 2262

This question is for every one .. but mostly directed twards Dave WB6DHW.

Im wondering if its a good idea to use a diplexer to provide a load for the larger signal present after the Rf amp (before it?) when operating on a harmonic.

I wonder if there is any ill effects to/from U5 when its larger signal component is unloaded -- the fundamental -- and lets say your interested in transmitting the 5th harmonic which next stage presents a 50ohm load.

2263. Re: [UHFSDR] Operation on 3rd/5th harmonic

Yahoo group: UHFSDR
Date: 2016-11-14 20:14:00 UTC
From: Dave
Topic: 2262 Message: 2263

Mike:
Not a bad idea to provide a diplexer after the amp. I think it would depend on if you have a band pass filter ahead of the amp and how good it is.

Dave - WB6DHW
<http://wb6dhw.com>

On 11/14/2016 7:49 AM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>
> This question is for every one .. but mostly directed twards Dave WB6DHW.
>
>
> Im wondering if its a good idea to use a diplexer to provide a load
> for the larger signal present after the Rf amp (before it?) when
> operating on a harmonic.
>
>
> I wonder if there is any ill effects to/from U5 when its larger signal
> component is unloaded -- the fundamental -- and lets say your
> interested in transmitting the 5th harmonic which next stage presents
> a 50ohm load.
>
>

2264. Re: [UHFSDR] Operation on 3rd/5th harmonic

Yahoo group: UHFSDR
Date: 2016-11-14 22:06:45 UTC
From: MIKE DURKIN
Topic: 2262 Message: 2264

I have vhf/ufh bandpass filters that are better than 50db (most are better than 60db, but 1.25m was only 52db) out of band rejection. ...

But I'm thinking of using those as part diplexer / part Normal operation BPF depending if I'm operating on a harmonic or not .... some UHF/SHF bands are harmonics of lower bands ... others are not ..

When operating on a harmonic, the vhf bandpass gets a load and harmonic gets amplified/filtered too ...

I'm just wondering if the fundemental should be filtered off to a load. I think the reason most do not see 50mW (close though) of fundemental power is because part of the power is being developed on the harmonics -- meaning that maybe , when using harmonics for TX ... the fundemental should be striped off first before the first amp (to get more power and perhaps less garbage).

I'm not sure what level of 0IF is being sent to the mixers --- maybe it makes no diference because you can't hit the mixers much harder ....

I'm still wondering if the unloaded fundemental might cause some non-linear products in the 3rd/5th ....

If it's fine, then I guess using filters after the Tx/Rx switch before the next RF amp stage will do.

I don't have a spectrum analyzer to check with / see ....

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From: Dave dave@... [UHFSDR]
Sent: Monday, November 14, 12:14 PM
Subject: Re: [UHFSDR] Operation on 3rd/5th harmonic
To: Dave dave@wb6dhw.com [UHFSDR]

Mike:
Not a bad idea to provide a diplexer after the amp. I think it would depend on if you have a band pass filter ahead of the amp and how good it is.

Dave - WB6DHW
<http://wb6dhw.com><http://wb6dhw.com>

On 11/14/2016 7:49 AM, MIKE DURKIN Patriot121@...<mailto:Patriot121@...> [UHFSDR] wrote:

This question is for every one .. but mostly directed twards Dave WB6DHW.

Im wondering if its a good idea to use a diplexer to provide a load for the larger signal present after the Rf amp (before it?) when operating on a harmonic.

I wonder if there is any ill effects to/from U5 when its larger signal component is unloaded -- the fundamental -- and lets say your interested in transmitting the 5th harmonic which next stage presents a 50ohm load.

2265. band pass filter baord

Yahoo group: UHFSDR
Date: 2016-11-22 03:45:28 UTC
From: MIKE DURKIN
Topic: 2265 Message: 2265

Dave .. i cant find the schematic tot he band pass filter board .... any chance it will work with a 3.3v control lines?

2266. Re: [UHFSDR] band pass filter baord

Yahoo group: UHFSDR
Date: 2016-11-22 04:47:52 UTC
From: Dave
Topic: 2265 Message: 2266
Attachments: 1 described; binary payloads are missing from this source WARC

Mike:
I have attached the schematic. The control lines should work with anything above 2.5V(1/2 the supply voltage) and equal or below the + supply.

Dave - WB6DHW
<http://wb6dhw.com>

On 11/21/2016 7:45 PM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>
> Dave .. i cant find the schematic tot he band pass filter board ....
> any chance it will work with a 3.3v control lines?
>
>

2267. Re: [UHFSDR] band pass filter baord [1 Attachment]

Yahoo group: UHFSDR
Date: 2016-11-22 05:14:11 UTC
From: MIKE DURKIN
Topic: 2265 Message: 2267

Any idea of how much current to drive s0/s1/s2 ... I'd like to drive with gpio

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On Mon, Nov 21, 2016 at 8:48 PM -0800, "Dave dave@... [UHFSDR]" <UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>> wrote:

Mike:
I have attached the schematic. The control lines should work with anything above 2.5V(1/2 the supply voltage) and equal or below the + supply.

Dave - WB6DHW
<http://wb6dhw.com><http://wb6dhw.com>

On 11/21/2016 7:45 PM, MIKE DURKIN Patriot121@msn.com<mailto:Patriot121@...> [UHFSDR] wrote:

Dave .. i cant find the schematic tot he band pass filter board .... any chance it will work with a 3.3v control lines?

2268. Re: [UHFSDR] band pass filter baord

Yahoo group: UHFSDR
Date: 2016-11-22 05:46:11 UTC
From: MIKE DURKIN
Topic: 2265 Message: 2268

I foundf a reference for a SN74CBT3251 (TI part) to be at 2.5mA ...

From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of MIKE DURKIN Patriot121@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Monday, November 21, 2016 9:14 PM
To: Dave dave@... [UHFSDR]
Subject: Re: [UHFSDR] band pass filter baord

Any idea of how much current to drive s0/s1/s2 ... I'd like to drive with gpio

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On Mon, Nov 21, 2016 at 8:48 PM -0800, "Dave dave@... [UHFSDR]" <UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>> wrote:

Mike:
I have attached the schematic. The control lines should work with anything above 2.5V(1/2 the supply voltage) and equal or below the + supply.

Dave - WB6DHW
<http://wb6dhw.com><http://wb6dhw.com>

On 11/21/2016 7:45 PM, MIKE DURKIN Patriot121@...<mailto:Patriot121@...> [UHFSDR] wrote:

Dave .. i cant find the schematic tot he band pass filter board .... any chance it will work with a 3.3v control lines?

2269. band pass filter board

Yahoo group: UHFSDR
Date: 2016-12-03 04:06:40 UTC
From: MIKE DURKIN
Topic: 2269 Message: 2269

This might be a silly question ...

Why is a adt1-1 used on the input to the filter board and not on the output ?

How much current does the pin5 pull of the 2.5V U2?

Where does the 2.5v come from on the adt1-1/U1 ?

2270. Re: [UHFSDR] band pass filter board

Yahoo group: UHFSDR
Date: 2016-12-03 06:30:02 UTC
From: Dave
Topic: 2269 Message: 2270

On 12/2/2016 8:06 PM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>
> This might be a silly question ...
>

>
> Why is a adt1-1 used on the input to the filter board and not on the
> output ?
>
Don't remember why. The transformer on the input was designed to
connect to an antenna. The output would go to either a mixer or a preamp.

>
> How much current does the pin5 pull of the 2.5V U2?
>
Should be in microamps.
>
>
> Where does the 2.5v come from on the adt1-1/U1 ?
>
R1 and R2 for a voltage divider.
>
>

2271. Re: [UHFSDR] band pass filter baord [1 Attachment]

Yahoo group: UHFSDR
Date: 2016-12-03 14:46:15 UTC
From: Jim Sanford
Topic: 2265 Message: 2271

Dave:

By chance have you done any filter designs for 6/2m and/or 70cm?

Thanks & 73,

Jim

wb4gcs@...

On 11/21/2016 11:47 PM, Dave dave@... [UHFSDR] wrote:
>
> Mike:
> I have attached the schematic. The control lines should work with
> anything above 2.5V(1/2 the supply voltage) and equal or below the +
> supply.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 11/21/2016 7:45 PM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>>
>> Dave .. i cant find the schematic tot he band pass filter board ....
>> any chance it will work with a 3.3v control lines?
>>
>
>

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https://www.avast.com/antivirus

2272. Re: [UHFSDR] band pass filter baord

Yahoo group: UHFSDR
Date: 2016-12-03 19:57:37 UTC
From: Dave
Topic: 2265 Message: 2272

Jim:
The MPLPF has a 6m section. I did a 2m design for our club transceiver. Haven't checked it out yet. I use the AADE Filter design program t design filters. While AADE is gone due to death of the owner, the program is still available on the internet. At 70cm the cap and coil values start to get quite low. What bandwidth are you looking for?

Dave - WB6DHW
<http://wb6dhw.com>

On 12/3/2016 6:46 AM, Jim Sanford wb4gcs@... [UHFSDR] wrote:
>
> Dave:
>
> By chance have you done any filter designs for 6/2m and/or 70cm?
>
> Thanks & 73,
>
> Jim
>
> wb4gcs@...
>
>
>
> On 11/21/2016 11:47 PM, Dave dave@... [UHFSDR] wrote:
>>
>> Mike:
>> I have attached the schematic. The control lines should work with
>> anything above 2.5V(1/2 the supply voltage) and equal or below the +
>> supply.
>>
>> Dave - WB6DHW
>> <http://wb6dhw.com>
>>
>> On 11/21/2016 7:45 PM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>>>
>>> Dave .. i cant find the schematic tot he band pass filter board ....
>>> any chance it will work with a 3.3v control lines?
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2273. Re: [UHFSDR] band pass filter baord

Yahoo group: UHFSDR
Date: 2016-12-03 20:27:42 UTC
From: Jim Sanford
Topic: 2265 Message: 2273

Narrow band (CW/SSB) region of the band.

Thanks@

Jim

On 12/3/2016 2:57 PM, Dave dave@... [UHFSDR] wrote:
>
> Jim:
> The MPLPF has a 6m section. I did a 2m design for our club
> transceiver. Haven't checked it out yet. I use the AADE Filter
> design program t design filters. While AADE is gone due to death of
> the owner, the program is still available on the internet. At 70cm
> the cap and coil values start to get quite low. What bandwidth are
> you looking for?
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
>
>
> On 12/3/2016 6:46 AM, Jim Sanford wb4gcs@... [UHFSDR] wrote:
>>
>> Dave:
>>
>> By chance have you done any filter designs for 6/2m and/or 70cm?
>>
>> Thanks & 73,
>>
>> Jim
>>
>> wb4gcs@...
>>
>>
>>
>> On 11/21/2016 11:47 PM, Dave dave@... [UHFSDR] wrote:
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>>> Mike:
>>> I have attached the schematic. The control lines should work with
>>> anything above 2.5V(1/2 the supply voltage) and equal or below the
>>> + supply.
>>>
>>> Dave - WB6DHW
>>> <http://wb6dhw.com>
>>>
>>> On 11/21/2016 7:45 PM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:

>>>>
>>>> Dave .. i cant find the schematic tot he band pass filter board
>>>> .... any chance it will work with a 3.3v control lines?
>>>>
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2274. Re: [UHFSDR] band pass filter baord

Yahoo group: UHFSDR
Date: 2016-12-03 23:11:34 UTC
From: MIKE DURKIN
Topic: 2265 Message: 2274

Just because?

There is a bpf for 2m 1.25m and 70cm for 15$ each...

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On Sat, Dec 3, 2016 at 12:40 PM -0800, "Jim Sanford wb4gcs@... [UHFSDR]" <UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>> wrote:

Narrow band (CW/SSB) region of the band.

Thanks@

Jim

On 12/3/2016 2:57 PM, Dave dave@...<mailto:dave@...> [UHFSDR] wrote:

Jim:
The MPLPF has a 6m section. I did a 2m design for our club transceiver. Haven't checked it out yet. I use the AADE Filter design program t design filters. While AADE is gone due to death of the owner, the program is still available on the internet. At 70cm the cap and coil values start to get quite low. What bandwidth are you looking for?

Dave - WB6DHW
<http://wb6dhw.com><http://wb6dhw.com>

On 12/3/2016 6:46 AM, Jim Sanford wb4gcs@...<mailto:wb4gcs@...> [UHFSDR] wrote:

Dave:

By chance have you done any filter designs for 6/2m and/or 70cm?

Thanks & 73,

Jim

wb4gcs@...<mailto:wb4gcs@...>

On 11/21/2016 11:47 PM, Dave dave@...<mailto:dave@...> [UHFSDR] wrote:

Mike:
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On 11/21/2016 7:45 PM, MIKE DURKIN Patriot121@...<mailto:Patriot121@...> [UHFSDR] wrote:

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[Avast logo] <https://www.avast.com/antivirus>

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www.avast.com<https://www.avast.com/antivirus>

2275. Re: [UHFSDR] band pass filter baord

Yahoo group: UHFSDR
Date: 2016-12-04 01:51:59 UTC
From: MIKE DURKIN
Topic: 2265 Message: 2275

Jim Veatch, WA2EUJ sells the filters that I'm using .... and I still can't remember the sites name .... they need a better Web name

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On Sat, Dec 3, 2016 at 3:11 PM -0800, "MIKE DURKIN Patriot121@... [UHFSDR]" <UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>> wrote:

Just because?

There is a bpf for 2m 1.25m and 70cm for 15$ each...

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On Sat, Dec 3, 2016 at 12:40 PM -0800, "Jim Sanford wb4gcs@... [UHFSDR]" <UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>> wrote:

Narrow band (CW/SSB) region of the band.

Thanks@

Jim

On 12/3/2016 2:57 PM, Dave dave@...<mailto:dave@...> [UHFSDR] wrote:

Jim:
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Dave - WB6DHW
<http://wb6dhw.com><http://wb6dhw.com>

On 12/3/2016 6:46 AM, Jim Sanford wb4gcs@...<mailto:wb4gcs@...> [UHFSDR] wrote:

Dave:

By chance have you done any filter designs for 6/2m and/or 70cm?

Thanks & 73,

Jim

wb4gcs@...g<mailto:wb4gcs@...>

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Mike:
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the supply voltage) and equal or below the + supply.

Dave - WB6DHW
<http://wb6dhw.com><http://wb6dhw.com>

On 11/21/2016 7:45 PM, MIKE DURKIN Patriot121@msn.com<mailto:Patriot121@...> [UHFSDR] wrote:

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[Avast logo] <https://www.avast.com/antivirus>

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www.avast.com<https://www.avast.com/antivirus>

2276. Re: [UHFSDR] band pass filter baord

Yahoo group: UHFSDR
Date: 2016-12-04 03:21:20 UTC
From: David E Brandon
Topic: 2265 Message: 2276

Mr Veatch filters are at HobbyPCB
https://hobbypcb.com/products/uhf-vhf-radio/144mhz-band-pass-filter etc.
----- Original Message -----
From: MIKE DURKIN Patriot121@... [UHFSDR]
To: Jim Sanford wb4gcs@... [UHFSDR]
Sent: Saturday, December 03, 2016 7:51 PM
Subject: Re: [UHFSDR] band pass filter baord

Jim Veatch, WA2EUJ sells the filters that I'm using .... and I still can't remember the sites name .... they need a better Web name

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On Sat, Dec 3, 2016 at 3:11 PM -0800, "MIKE DURKIN Patriot121@... [UHFSDR]" <UHFSDR@yahoogroups.com> wrote:

Just because?

There is a bpf for 2m 1.25m and 70cm for 15$ each...

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On Sat, Dec 3, 2016 at 12:40 PM -0800, "Jim Sanford wb4gcs@... [UHFSDR]" <UHFSDR@yahoogroups.com> wrote:

Narrow band (CW/SSB) region of the band.

Thanks@

Jim

On 12/3/2016 2:57 PM, Dave dave@... [UHFSDR] wrote:

Jim:
The MPLPF has a 6m section. I did a 2m design for our club transceiver. Haven't checked it out yet. I use the AADE Filter design program t design filters. While AADE is gone due to death of the owner, the program is still available on the internet. At 70cm the cap and coil values start to get quite low. What bandwidth are you looking for?

Dave - WB6DHW
<http://wb6dhw.com>

On 12/3/2016 6:46 AM, Jim Sanford wb4gcs@... [UHFSDR] wrote:

Dave:

By chance have you done any filter designs for 6/2m and/or 70cm?

Thanks & 73,

Jim

wb4gcs@...

On 11/21/2016 11:47 PM, Dave dave@... [UHFSDR] wrote:

Mike:
I have attached the schematic. The control lines should work with anything above 2.5V(1/2 the supply voltage) and equal or below the + supply.

Dave - WB6DHW
<http://wb6dhw.com>

On 11/21/2016 7:45 PM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:

Dave .. i cant find the schematic tot he band pass filter board .... any chance it will work with a 3.3v control lines?

This email has been checked for viruses by Avast antivirus software.
www.avast.com

This email has been checked for viruses by Avast antivirus software.
www.avast.com

2277. ADE-42MH

Yahoo group: UHFSDR
Date: 2016-12-04 19:07:19 UTC
From: MIKE DURKIN
Topic: 2277 Message: 2277

What kind of performance loss would you think the ADE-42MH over the ADE-2ASK ?

2278. Re: [UHFSDR] ADE-42MH

Yahoo group: UHFSDR
Date: 2016-12-04 20:13:26 UTC
From: Dave
Topic: 2277 Message: 2278

Mike:
Depends on the frequency. Looking at the 2 data sheets, the conversion loss is close for both. The ADE-42H is not specified below 5 MHz on both the RF and IF ports. The IF port on the ADE-2 goes down to DC. Could affect direct conversion to and from audio. Hard for me to tell from the schematics of the 2 devices. No capacitors in either. The ADE-42H has more diodes. Looks to me like the IF on the ADE-42H is DC coupled like the ADE-2. The RF input low frequency will depend on the core of the transformers and very possibly would have much more conversion loss than the ADE-2. If you have a ADE-42H, try it and let us know.

Dave - WB6DHW
<http://wb6dhw.com>

On 12/4/2016 11:07 AM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>
> What kind of performance _*loss*_ would you think the ADE-42MH over
> the ADE-2ASK ?
>
>

2279. Re: [UHFSDR] ADE-42MH

Yahoo group: UHFSDR
Date: 2016-12-04 23:00:48 UTC
From: MIKE DURKIN
Topic: 2277 Message: 2279

I'm thinking of buying some off of eBay.... the if/rf for both are also spect'd @30mhz ...

Get Outlook for Android<https://aka.ms/ghei36>

On Sun, Dec 4, 2016 at 12:14 PM -0800, "Dave dave@... [UHFSDR]" <UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>> wrote:

Mike:
Depends on the frequency. Looking at the 2 data sheets, the conversion loss is close for both. The ADE-42H is not specified below 5 MHz on both the RF and IF ports. The IF port on the ADE-2 goes down to DC. Could affect direct conversion to and from audio. Hard for me to tell from the schematics of the 2 devices. No capacitors in either. The ADE-42H has more diodes. Looks to me like the IF on the ADE-42H is DC coupled like the ADE-2. The RF input low frequency will depend on the core of the transformers and very possibly would have much more conversion loss than the ADE-2. If you have a ADE-42H, try it and let us know.

Dave - WB6DHW
<http://wb6dhw.com><http://wb6dhw.com>

On 12/4/2016 11:07 AM, MIKE DURKIN Patriot121@...<mailto:Patriot121@...> [UHFSDR] wrote:

What kind of performance loss would you think the ADE-42MH over the ADE-2ASK ?

2280. Free Si570

Yahoo group: UHFSDR
Date: 2016-12-06 23:16:12 UTC
From: Dave
Topic: 2280 Message: 2280

Silicon Labs is again sending free samples of the Si570. I just ordered
2 grade A LVECL output Si570's. Configure the Si570 at

<https://www.silabs.com/products/clocksoscillators/pages/oscillator-part-configure.aspx?PartNumber=Si570>

I think you need to register on the site for things to go through.
Takes about 2 weeks.

Dave - WB6DHW

<http://wb6dhw.com>

2281. Re: [UHFSDR] Free Si570

Yahoo group: UHFSDR
Date: 2016-12-07 00:43:35 UTC
From: MIKE DURKIN
Topic: 2280 Message: 2281

Thanks Dave I'll try to get myself two as well

Get Outlook for Android<https://aka.ms/ghei36>

_____
From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of Dave dave@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Tuesday, December 6, 2016 3:16:12 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Free Si570

Silicon Labs is again sending free samples of the Si570. I just ordered
2 grade A LVECL output Si570's. Configure the Si570 at

<https://www.silabs.com/products/clocksoscillators/pages/oscillator-part-configure.aspx?PartNumber=Si570>

I think you need to register on the site for things to go through.
Takes about 2 weeks.

Dave - WB6DHW

<http://wb6dhw.com>

2282. Re: Free Si570

Yahoo group: UHFSDR
Date: 2016-12-07 01:12:34 UTC
From: aqrp@...
Topic: 2280 Message: 2282

I have a UHFSDR system with an SI570 that failed a couple of months ago.

At this point I've forgotten the specs for the device.

What do I enter into the following table to get 1 or 2 replacements?

Frequency A:
MHz

Frequency B:
MHz

Frequency C:
MHz

Frequency D:
MHz

I2C Address
hex format

- THANKS -

2283. Re: [UHFSDR] Re: Free Si570

Yahoo group: UHFSDR
Date: 2016-12-07 02:17:10 UTC
From: Dave
Topic: 2280 Message: 2283

I only saw 1 block for frequency entry, although it is a drop down. For the frequency, select 10-945 MHz, etc. For the I2C address, select the default of 0x55. For the output select the default LVECL. For the startup frequency, you can put in anything. Put in 2 X what you would like your UHFSDR to to start at (I put in 19.982 MHz so the center freq is 9 KHz from WWV at 10 MHz).

Dave - WB6DHW
<http://wb6dhw.com>

On 12/6/2016 5:12 PM, aqrp@... [UHFSDR] wrote:
>
> I have a UHFSDR system with an SI570 that failed a couple of months ago.
>
> At this point I've forgotten the specs for the device.
>
> What do I enter into the following table to get 1 or 2 replacements?
>
> Frequency A:
> MHz
> Frequency B:
> MHz
> Frequency C:
> MHz
> Frequency D:
> MHz
> I2C Address
> hex format
>
>
> - THANKS -
>

2284. Re: [UHFSDR] Re: Free Si570

Yahoo group: UHFSDR
Date: 2016-12-07 02:47:13 UTC
From: aqrp@...
Topic: 2280 Message: 2284

After struggling with this for more time than I care to admit :-^(I finally realized that I wasn't logged in to the SILABS website....

I started over. Made sure I was properly logged in this time and was greeted with a page that insisted that I change my password. Then FINALLY was able to click on the link provided in your message and everything pretty much defaulted to a usable part.

I did some fine tuning (start up freq / stability option) then it was off to the ordering page.

Two are now on the way.

A great big

!!! THANK YOU !!!

2285. Re: [UHFSDR] Re: Free Si570

Yahoo group: UHFSDR
Date: 2016-12-07 03:00:17 UTC
From: Dave
Topic: 2280 Message: 2285

Thank SiLabs! Helps me sell more UHFSDR boards. Sometimes like now you can get them free, sometimes not. I was curious and started through the process to buy the Si570 from their site. They have a min quantity of 50 at $47 each! I actually got 2 free with address of 55H and 2 free with address of 56H. I will use these on a superhet rig with one for LO and one for BFO.

On 12/6/2016 6:47 PM, aqrp@... [UHFSDR] wrote:
>
> After struggling with this for more time than I care to admit :-^(I
> finally realized that I wasn't logged in to the SILABS website....
>
> I started over. Made sure I was properly logged in this time and was
> greeted with a page that insisted that I change my password. Then
> FINALLY was able to click on the link provided in your message and
> everything pretty much defaulted to a usable part.
>
> I did some fine tuning (start up freq / stability option) then it was
> off to the ordering page.
>
> Two are now on the way.
>
> A great big
>
> !!! THANK YOU !!!
>
>

2286. Re: [UHFSDR] Free Si570

Yahoo group: UHFSDR
Date: 2016-12-07 06:46:05 UTC
From: MIKE DURKIN
Topic: 2280 Message: 2286

once you get here? do you click on "order samples"?

Thank You
An email confirmation has also been sent to you at patriot121.
The following custom part number has been created:

From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of Dave dave@...m [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Tuesday, December 6, 2016 3:16 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Free Si570

Silicon Labs is again sending free samples of the Si570. I just ordered
2 grade A LVECL output Si570's. Configure the Si570 at

<https://www.silabs.com/products/clocksoscillators/pages/oscillator-part-configure.aspx?PartNumber=Si570>

I think you need to register on the site for things to go through.
Takes about 2 weeks.

Dave - WB6DHW

<http://wb6dhw.com>

2287. Re: [UHFSDR] Free Si570

Yahoo group: UHFSDR
Date: 2016-12-07 07:24:37 UTC
From: Dave
Topic: 2280 Message: 2287

Yes.

Dave - WB6DHW
<http://wb6dhw.com>

On 12/6/2016 10:46 PM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>
> once you get here? do you click on "order samples"?
>
>
> Thank You
>
> An email confirmation has also been sent to you at patriot121.
> The following custom part number has been created:
>
>
>
> ---
> *From:* UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of
> Dave dave@... [UHFSDR] <UHFSDR@yahoogroups.com>
> *Sent:* Tuesday, December 6, 2016 3:16 PM
> *To:* UHFSDR@yahoogroups.com
> *Subject:* [UHFSDR] Free Si570
>
> Silicon Labs is again sending free samples of the Si570. I just ordered
> 2 grade A LVECL output Si570's. Configure the Si570 at
>
> <https://www.silabs.com/products/clocksoscillators/pages/oscillator-part-configure.aspx?
PartNumber=Si570>
>
> I think you need to register on the site for things to go through.
> Takes about 2 weeks.
>
> Dave - WB6DHW
>
> <http://wb6dhw.com>
>
>

2288. Re: [UHFSDR] Free Si570

Yahoo group: UHFSDR
Date: 2016-12-07 07:31:14 UTC
From: peter.vk3pf@...
Topic: 2280 Message: 2288

Hmmm,

Must be US addresses only. I tried, but when I got to the relevant step, Order Samples was greyed out & not able to be clicked.

But thanks for the heads up anyway.

Peter

---In UHFSDR@yahoogroups.com, <dave@...> wrote :

Yes.

Dave - WB6DHW
<http://wb6dhw.com> http://wb6dhw.com

On 12/6/2016 10:46 PM, MIKE DURKIN Patriot121@... mailto:Patriot121@... [UHFSDR] wrote:

once you get here? do you click on "order samples"?

Thank You An email confirmation has also been sent to you at patriot121.
The following custom part number has been created:

From: UHFSDR@yahoogroups.com mailto:UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> mailto:UHFSDR@yahoogroups.com on behalf of Dave dave@... mailto:dave@... [UHFSDR] <UHFSDR@yahoogroups.com> mailto:UHFSDR@yahoogroups.com
Sent: Tuesday, December 6, 2016 3:16 PM
To: UHFSDR@yahoogroups.com mailto:UHFSDR@yahoogroups.com
Subject: [UHFSDR] Free Si570

Silicon Labs is again sending free samples of the Si570. I just ordered
2 grade A LVECL output Si570's. Configure the Si570 at

<https://www.silabs.com/products/clocksoscillators/pages/oscillator-part-configure.aspx?PartNumber=Si570> https://www.silabs.com/products/clocksoscillators/pages/oscillator-part-configure.aspx?PartNumber=Si570

I think you need to register on the site for things to go through.
Takes about 2 weeks.

Dave - WB6DHW

<http://wb6dhw.com> http://wb6dhw.com

2289. Re: [UHFSDR] Free Si570

Yahoo group: UHFSDR
Date: 2016-12-07 07:37:57 UTC
From: Dave
Topic: 2280 Message: 2289

Peter:
Did you register and log in? May be US only. Check with oe of their
VK reps or distributors.

Dave - WB6DHW
<http;//wb6dhw.com>

On 12/6/2016 11:31 PM, peter.vk3pf@... [UHFSDR] wrote:
>
> Hmmm,
>
> Must be US addresses only. I tried, but when I got to the relevant
> step, Order Samples was greyed out & not able to be clicked.
>
> But thanks for the heads up anyway.
>
> Peter
>
>
>
> ---In UHFSDR@yahoogroups.com, <dave@...> wrote :
>
> Yes.
>
> Dave - WB6DHW
> <http://wb6dhw.com> <http://wb6dhw.com>
>
> On 12/6/2016 10:46 PM, MIKE DURKIN Patriot121@...
> <mailto:Patriot121@...> [UHFSDR] wrote:
>
> once you get here? do you click on "order samples"?
>
>
> Thank You
>
> An email confirmation has also been sent to you at patriot121.
> The following custom part number has been created:
>
>
>
> ---
> *From:* UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> <UHFSDR@yahoogroups.com> <mailto:UHFSDR@yahoogroups.com> on behalf
> of Dave dave@... <mailto:dave@...> [UHFSDR]
> <UHFSDR@yahoogroups.com> <mailto:UHFSDR@yahoogroups.com>

> *Sent:* Tuesday, December 6, 2016 3:16 PM
> *To:* UHFSDR@yahoogroups.com <mailto:UHFSDR@yahoogroups.com>
> *Subject:* [UHFSDR] Free Si570
>
> Silicon Labs is again sending free samples of the Si570. I just
> ordered
> 2 grade A LVECL output Si570's. Configure the Si570 at
>
> <https://www.silabs.com/products/clocksoscillators/pages/oscillator-part-configure.aspx?
PartNumber=Si570>
> <https://www.silabs.com/products/clocksoscillators/pages/oscillator-part-configure.aspx?
PartNumber=Si570>
>
> I think you need to register on the site for things to go through.
> Takes about 2 weeks.
>
> Dave - WB6DHW
>
> <http://wb6dhw.com> <http://wb6dhw.com>
>
>
>

2290. Re: [UHFSDR] Free Si570

Yahoo group: UHFSDR
Date: 2016-12-07 07:40:33 UTC
From: peter.vk3pf@...
Topic: 2280 Message: 2290

Hi Dave,

Yes - I was logged in. Only option available was to contact a local representative.... I might explore that tomorrow local time.

Regards,

Peter

---In UHFSDR@yahoogroups.com, <dave@...> wrote :

Peter:
Did you register and log in? May be US only. Check with oe of their VK reps or distributors.

Dave - WB6DHW
<http;//wb6dhw.com>

On 12/6/2016 11:31 PM, peter.vk3pf@... mailto:peter.vk3pf@... [UHFSDR] wrote:

Hmmm,

Must be US addresses only. I tried, but when I got to the relevant step, Order Samples was greyed out & not able to be clicked.

But thanks for the heads up anyway.

Peter

2291. Re: Free Si570

Yahoo group: UHFSDR
Date: 2016-12-07 09:49:00 UTC
From: yl2qn.andy@...
Topic: 2280 Message: 2291

>>> I only saw 1 block for frequency entry, although it is a drop down. For the frequency, select 10-945 MHz, etc. For the I2C address, select the default of 0x55. For the output select the default LVECL. For the startup frequency, you can put in anything. Put in 2 X what you would like your UHFSDR to to start at (I put in 19.982 MHz so the center freq is 9 KHz from WWV at 10 MHz).

<<<

Hello,

Can you please help configure samples. With frequency and HEX address is clear, but there is more options:
- Supply Voltage (can assume 3.3V)
- OE Polarity (no ideas)
- Stability (61.5 ppm is better then 20 ppm ?)

Thank you for info in advance.

Regards,
Andy - YL2QN

2292. Re: [UHFSDR] Re: Free Si570

Yahoo group: UHFSDR
Date: 2016-12-07 20:15:30 UTC
From: Dave
Topic: 2280 Message: 2292

Andy:
Pick the default for the others except Stability, pick 20 ppm. Supply voltage =3.3 OE Polarity positive.

Dave - WB6DHW
<http://wb6dhw.com>

On 12/7/2016 1:49 AM, yl2qn.andy@... [UHFSDR] wrote:
>
> >>>
>
> I only saw 1 block for frequency entry, although it is a drop down.
> For the frequency, select 10-945 MHz, etc. For the I2C address,
> select the default of 0x55. For the output select the default LVECL.
> For the startup frequency, you can put in anything. Put in 2 X what
> you would like your UHFSDR to to start at (I put in 19.982 MHz so the
> center freq is 9 KHz from WWV at 10 MHz).
> <<<
>
> Hello,
>
> Can you please help configure samples. With frequency and HEX address
> is clear, but there is more options:
> - Supply Voltage (can assume 3.3V)
> - OE Polarity (no ideas)
> - Stability (61.5 ppm is better then 20 ppm ?)
>
> Thank you for info in advance.
>
> Regards,
> Andy - YL2QN
>

2293. UHFSDR microwave operation

Yahoo group: UHFSDR
Date: 2016-12-14 22:45:54 UTC
From: MIKE DURKIN
Topic: 2293 Message: 2293

I'll start off by saying that i don't know what the useful top end for the Si570/UHFSDR with a Class A si570 ....

But i have managed to push the UHFSDR to 3.5Ghz by using the 5th harmonic .... 707Mhz X5 = fun.

I run Ubuntu 14.04 and Quisk 4.1.2

I use a Qrp2000 (PE0FKO) Si570 controller .... and i changed the band multiplier to 2.

I got this script from Sid Boyce -- hope he still gets emails from UHFSDR

```
#!/bin/sh
usbsoftrock set si570_multiplier 0 2
usbsoftrock set si570_multiplier 1 2
usbsoftrock set si570_multiplier 2 2
usbsoftrock set si570_multiplier 3 2
usbsoftrock set si570_multiplier 4 2
usbsoftrock set si570_multiplier 5 2
usbsoftrock set si570_multiplier 6 2
usbsoftrock set si570_multiplier 7 2
usbsoftrock set si570_multiplier 8 2
```

So then i copy'd hardware_usb.py and called the copy hardware_usb_5th.py

Changed a few lines and remarked out 2 --

Ill post the hardware file to the files section later ... i need to get my kids .. like right now, so i cant finish this .. sorry.

Basically set quisk to direct control, changed the freq multiplier to 1 (in hardware_usb.py -- was 4 for softrock)

2294. Re: [UHFSDR] UHFSDR microwave operation

Yahoo group: UHFSDR
Date: 2016-12-14 22:52:41 UTC
From: Dave
Topic: 2293 Message: 2294

Mike:
Was that with the stock ADE-2ASK or did you substitute a higher freq
mixer?

Dave - WB6DHW
<http://wb6dhw.com>

On 12/14/2016 2:45 PM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>
> I'll start off by saying that i don't know what the useful top end for
> the Si570/UHFSDR with a Class A si570 ....
>
>
> But i have managed to push the UHFSDR to 3.5Ghz by using the 5th
> harmonic .... 707Mhz X5 = fun.
>
>
> I run Ubuntu 14.04 and Quisk 4.1.2
>
>
> I use a Qrp2000 (PE0FKO) Si570 controller .... and i changed the band
> multiplier to 2.
>
>
> I got this script from Sid Boyce -- hope he still gets emails from UHFSDR
>
>
> #!/bin/sh
> usbsoftrock set si570_multiplier 0 2
> usbsoftrock set si570_multiplier 1 2
> usbsoftrock set si570_multiplier 2 2
> usbsoftrock set si570_multiplier 3 2
> usbsoftrock set si570_multiplier 4 2
> usbsoftrock set si570_multiplier 5 2
> usbsoftrock set si570_multiplier 6 2
> usbsoftrock set si570_multiplier 7 2
> usbsoftrock set si570_multiplier 8 2
>
>
> So then i copy'd hardware_usb.py and called the copy hardware_usb_5th.py
>
>
> Changed a few lines and remarked out 2 --
>
>

> Ill post the hardware file to the files section later ... i need to
> get my kids .. like right now, so i cant finish this .. sorry.
>
>
> Basically set quisk to direct control, changed the freq multiplier to
> 1 (in hardware_usb.py -- was 4 for softrock)
>
>

2295. Re: [UHFSDR] UHFSDR microwave operation

Yahoo group: UHFSDR
Date: 2016-12-14 23:18:44 UTC
From: MIKE DURKIN
Topic: 2293 Message: 2295

Still the original .....

Get Outlook for Android<https://aka.ms/ghei36>

_____
From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of Dave dave@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Wednesday, December 14, 2016 2:52:41 PM
To: UHFSDR@...m
Subject: Re: [UHFSDR] UHFSDR microwave operation

Mike:
Was that with the stock ADE-2ASK or did you substitute a higher freq mixer?

Dave - WB6DHW
<http://wb6dhw.com><http://wb6dhw.com>

On 12/14/2016 2:45 PM, MIKE DURKIN Patriot121@...<mailto:Patriot121@...> [UHFSDR] wrote:

I'll start off by saying that i don't know what the useful top end for the Si570/UHFSDR with a Class A si570 ....

But i have managed to push the UHFSDR to 3.5Ghz by using the 5th harmonic .... 707Mhz X5 = fun.

I run Ubuntu 14.04 and Quisk 4.1.2

I use a Qrp2000 (PE0FKO) Si570 controller .... and i changed the band multiplier to 2.

I got this script from Sid Boyce -- hope he still gets emails from UHFSDR

```
#!/bin/sh
usbsoftrock set si570_multiplier 0 2
usbsoftrock set si570_multiplier 1 2
usbsoftrock set si570_multiplier 2 2
usbsoftrock set si570_multiplier 3 2
usbsoftrock set si570_multiplier 4 2
usbsoftrock set si570_multiplier 5 2
usbsoftrock set si570_multiplier 6 2
usbsoftrock set si570_multiplier 7 2
usbsoftrock set si570_multiplier 8 2
```

So then i copy'd hardware_usb.py and called the copy hardware_usb_5th.py

Changed a few lines and remarked out 2 --

Ill post the hardware file to the files section later ... i need to get my kids .. like right now, so i cant finish this .. sorry.

Basically set quisk to direct control, changed the freq multiplier to 1 (in hardware_usb.py -- was 4 for softrock)

2296. New file uploaded to UHFSDR

Yahoo group: UHFSDR
Date: 2016-12-15 03:25:38 UTC
From: UHFSDR@yahoogroups.com
Topic: 2 Message: 2296

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the UHFSDR
group.

File : /KC7NOA for Quisk to 3.5Ghz on 5th/hardware_usb_5th.py
Uploaded by : seth_otherpower <Patriot121@...>
Description : first set PE0FKO to multi X2
Use direct control in GUI of Quisk

You can access this file at the URL:
https://groups.yahoo.com/neo/groups/UHFSDR/files/KC7NOA%20for%20Quisk%20to%203.5Ghz%20on%205th/hardware_usb_5th.py

To learn more about file sharing for your group, please visit:
https://help.yahoo.com/kb/index?page=content&y=PROD_GRPS&locale=en_US&id=SLN15398

Regards,

seth_otherpower <Patriot121@...>

2297. New file uploaded to UHFSDR

Yahoo group: UHFSDR
Date: 2016-12-15 03:26:42 UTC
From: UHFSDR@yahoogroups.com
Topic: 2 Message: 2297

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the UHFSDR
group.

File : /KC7NOA for Quisk to 3.5Ghz on 5th/hardware_usb.py
Uploaded by : seth_otherpower <Patriot121@...>
Description : first set PE0FKO to multi X2
This goes in quisk-X.X.X/softrock folder
use direct control

You can access this file at the URL:
https://groups.yahoo.com/neo/groups/UHFSDR/files/KC7NOA%20for%20Quisk%20to%203.5Ghz%20on%205th/hardware_usb.py

To learn more about file sharing for your group, please visit:
https://help.yahoo.com/kb/index?page=content&y=PROD_GRPS&locale=en_US&id=SLN15398

Regards,

seth_otherpower <Patriot121@...>

2298. New file uploaded to UHFSDR

Yahoo group: UHFSDR
Date: 2016-12-16 22:33:29 UTC
From: UHFSDR@yahoogroups.com
Topic: 2 Message: 2298

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the UHFSDR
group.

File : /KC7NOA for Quisk to 3.5Ghz on 5th/UHFSDR_usb.py
Uploaded by : seth_otherpower <Patriot121@...>
Description : UHFSDR direct or standard control

You can access this file at the URL:
https://groups.yahoo.com/neo/groups/UHFSDR/files/KC7NOA%20for%20Quisk%20to%203.5Ghz%20on%205th/UHFSDR_usb.py

To learn more about file sharing for your group, please visit:
https://help.yahoo.com/kb/index?page=content&y=PROD_GRPS&locale=en_US&id=SLN15398

Regards,

seth_otherpower <Patriot121@...>

2299. New file uploaded to UHFSDR

Yahoo group: UHFSDR
Date: 2016-12-16 22:34:05 UTC
From: UHFSDR@yahoogroups.com
Topic: 2 Message: 2299

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the UHFSDR
group.

File : /KC7NOA for Quisk to 3.5Ghz on 5th/UHFSDR_usb_5th.py
Uploaded by : seth_otherpower <Patriot121@...>
Description : UHFSDR 5Th harmonic ... Use direct control

You can access this file at the URL:
https://groups.yahoo.com/neo/groups/UHFSDR/files/KC7NOA%20for%20Quisk%20to%203.5Ghz%20on%205th/UHFSDR_usb_5th.py

To learn more about file sharing for your group, please visit:
https://help.yahoo.com/kb/index?page=content&y=PROD_GRPS&locale=en_US&id=SLN15398

Regards,

seth_otherpower <Patriot121@...>

2300. New file uploaded to UHFSDR

Yahoo group: UHFSDR
Date: 2016-12-16 22:41:56 UTC
From: UHFSDR@yahoogroups.com
Topic: 2 Message: 2300

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the UHFSDR
group.

File : /KC7NOA for Quisk to 3.5Ghz on 5th/UHFSDR_Set_band_X2.sh
Uploaded by : seth_otherpower <Patriot121@...>
Description : Set band multi to 2X called frequency

You can access this file at the URL:
https://groups.yahoo.com/neo/groups/UHFSDR/files/KC7NOA%20for%20Quisk%20to%203.5Ghz%20on%205th/UHFSDR_Set_band_X2.sh

To learn more about file sharing for your group, please visit:
https://help.yahoo.com/kb/index?page=content&y=PROD_GRPS&locale=en_US&id=SLN15398

Regards,

seth_otherpower <Patriot121@...>

2301. Re: Free Si570

Yahoo group: UHFSDR
Date: 2016-12-21 20:45:52 UTC
From: lists@...
Topic: 2280 Message: 2301

All,

I placed a request for two samples (just like many did here). I was contacted by the local rep yesterday regarding the samples and was quizzed on my "product" and what I needed them for. I asked about the samples and was told they were "very expensive" and they would submit the request for me, but were not likely to get the samples request approved. This is very different from the last time I tried to get samples (over five years ago). I think the amateur community might have overwhelmed them with freebie requests and this time around they are trying to sort out the ones looking for free samples for projects vs. product development. In my case, I have an electronics company and I do often request samples for product development. I had to sort of take that angle with the rep, hoping it might work in my favor to get them. At this point, I would be happy with just one to build my UHFSDR kit.

I'm just curious if anyone else was contacted the same way after they submitted for their samples. Has anyone received theirs yet? The rep told me that once you submit a request, it's fielded to the local rep to you and they take it from there. Not sure if they are trying to cut down on the expense of giving them away to "non-legitimate" customers or if they are using this as a marketing technique to sell you more parts.

Jason KE4NYV
RPC Electronics, LLC
www.rpc-electronics.com

2302. Re: [UHFSDR] Re: Free Si570

Yahoo group: UHFSDR
Date: 2016-12-21 21:26:05 UTC
From: Dave
Topic: 2280 Message: 2302

I ordered 1 set of samples last month and one this month. I have never been contacted by a rep and always get the samples within 2 to 3 weeks. Did you get all the way through to checkout cart?

Dave - WB6DHW
<http://wb6dhw.com>

On 12/21/2016 12:45 PM, lists@... [UHFSDR] wrote:
>
> All,
>
>
> I placed a request for two samples (just like many did here). I was
> contacted by the local rep yesterday regarding the samples and was
> quizzed on my "product" and what I needed them for. I asked about the
> samples and was told they were "very expensive" and they would submit
> the request for me, but were not likely to get the samples request
> approved. This is very different from the last time I tried to get
> samples (over five years ago). I think the amateur community might
> have overwhelmed them with freebie requests and this time around they
> are trying to sort out the ones looking for free samples for projects
> vs. product development. In my case, I have an electronics company
> and I do often request samples for product development. I had to sort
> of take that angle with the rep, hoping it might work in my favor to
> get them. At this point, I would be happy with just one to build my
> UHFSDR kit.
>
> I'm just curious if anyone else was contacted the same way after they
> submitted for their samples. Has anyone received theirs yet? The rep
> told me that once you submit a request, it's fielded to the local rep
> to you and they take it from there. Not sure if they are trying to
> cut down on the expense of giving them away to "non-legitimate"
> customers or if they are using this as a marketing technique to sell
> you more parts.
>
> Jason KE4NYV
> RPC Electronics, LLC
> www.rpc-electronics.com
>

2303. Re: [UHFSDR] Re: Free Si570

Yahoo group: UHFSDR
Date: 2016-12-21 21:28:53 UTC
From: lists@...
Topic: 2280 Message: 2303

I did. She had all of my submitted information to contact me with.

Jason KE4NYV
RPC Electronics, LLC
www.rpc-electronics.com

2304. Re: [UHFSDR] Re: Free Si570

Yahoo group: UHFSDR
Date: 2016-12-21 22:12:39 UTC
From: Will Kimber
Topic: 2280 Message: 2304

Maybe it was because you were using company name rather that ham.

Cheers,

Will

On 12/22/2016 10:28 AM, lists@... [UHFSDR] wrote:
>
> I did. She had all of my submitted information to contact me with.
>
>
> Jason KE4NYV
> RPC Electronics, LLC
> www.rpc-electronics.com
>

2305. Re: [UHFSDR] Re: Free Si570

Yahoo group: UHFSDR
Date: 2016-12-22 15:21:14 UTC
From: g.suggate@...
Topic: 2280 Message: 2305

I requested a sample a few weeks ago. Even though I am in the UK, it did not seem to be a problem. Mind you it has not arrived yet.....

Geoff G3NPI

2306. FS: UHFSDR assembled

Yahoo group: UHFSDR
Date: 2017-01-10 00:12:46 UTC
From: gus.stuart@...
Topic: 2306 Message: 2306

Version 1a board, assembled--only needs RG-174 jumper. Pictures available. Asking $50 shipped US only. Please contact me off list if interested.

73,
Gus, n1ccw

2307. Re: [UHFSDR] FS: UHFSDR assembled

Yahoo group: UHFSDR
Date: 2017-01-10 01:26:50 UTC
From: MIKE DURKIN
Topic: 2306 Message: 2307

Did you have Si570 on it? Which one?
I'm interested .... but hard up with money till next month ... wife AND a child's birthday this month....

Get Outlook for Android<https://aka.ms/ghei36>

_____
From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of gus.stuart@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Monday, January 9, 2017 4:12:46 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] FS: UHFSDR assembled

Version 1a board, assembled--only needs RG-174 jumper. Pictures available. Asking $50 shipped US only. Please contact me off list if interested.

73,
Gus, n1ccw

2308. Re: [UHFSDR] FS: UHFSDR assembled

Yahoo group: UHFSDR
Date: 2017-01-10 02:27:45 UTC
From: MIKE DURKIN
Topic: 2306 Message: 2308

Bty ... not every one can reply off list when you don't give your email in the body of an email .... when I'm using my phone I can't pull your email off of the header

Get Outlook for Android<https://aka.ms/ghei36>

_____
From: UHFSDR@yahoogroups.com <UHFSDR@...m> on behalf of MIKE DURKIN Patriot121@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Monday, January 9, 2017 5:26:50 PM
To: gus.stuart@... [UHFSDR]
Subject: Re: [UHFSDR] FS: UHFSDR assembled

Did you have Si570 on it? Which one?
I'm interested .... but hard up with money till next month ... wife AND a child's birthday this month....

Get Outlook for Android<https://aka.ms/ghei36>

_____
From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of gus.stuart@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Monday, January 9, 2017 4:12:46 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] FS: UHFSDR assembled

Version 1a board, assembled--only needs RG-174 jumper. Pictures available. Asking $50 shipped US only. Please contact me off list if interested.

73,
Gus, n1ccw

2309. Re: [UHFSDR] FS: UHFSDR assembled

Yahoo group: UHFSDR
Date: 2017-01-10 02:42:02 UTC
From: Matthew Pitts
Topic: 2306 Message: 2309

Mike,

One thing I've found is that sometimes the email address gets truncated by Yahoo if included in the body of the message.

Matthew Pitts
N8OHU

On January 9, 2017 9:27:45 PM EST, "MIKE DURKIN Patriot121@... [UHFSDR]" <UHFSDR@yahoogroups.com> wrote:
>Bty ... not every one can reply off list when you don't give your email
>in the body of an email .... when I'm using my phone I can't pull your
>email off of the header
>
>Get Outlook for Android<https://aka.ms/ghei36>
>
>_____
>From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of MIKE
>DURKIN Patriot121@... [UHFSDR] <UHFSDR@yahoogroups.com>
>Sent: Monday, January 9, 2017 5:26:50 PM
>To: gus.stuart@... [UHFSDR]
>Subject: Re: [UHFSDR] FS: UHFSDR assembled
>
>
>
>Did you have Si570 on it? Which one?
>I'm interested .... but hard up with money till next month ... wife AND
>a child's birthday this month....
>
>Get Outlook for Android<https://aka.ms/ghei36>
>
>_____
>From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of
>gus.stuart@... [UHFSDR] <UHFSDR@yahoogroups.com>
>Sent: Monday, January 9, 2017 4:12:46 PM
>To: UHFSDR@yahoogroups.com
>Subject: [UHFSDR] FS: UHFSDR assembled
>
>
>
>Version 1a board, assembled--only needs RG-174 jumper. Pictures
>available. Asking $50 shipped US only. Please contact me off list if
>interested.
>
>73,
>Gus, n1ccw

--
Sent from my Android device with K-9 Mail. Please excuse my brevity.

2310. Re: [UHFSDR] FS: UHFSDR assembled

Yahoo group: UHFSDR
Date: 2017-01-10 06:26:52 UTC
From: MIKE DURKIN
Topic: 2306 Message: 2310

Thats true ... when they are long ....

From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of Matthew Pitts daywalker_blade_2004@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Monday, January 9, 2017 6:42 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] FS: UHFSDR assembled

Mike,

One thing I've found is that sometimes the email address gets truncated by Yahoo if included in the body of the message.

Matthew Pitts
N8OHU

On January 9, 2017 9:27:45 PM EST, "MIKE DURKIN Patriot121@... [UHFSDR]" <UHFSDR@yahoogroups.com> wrote:

Bty ... not every one can reply off list when you don't give your email in the body of an email .... when I'm using my phone I can't pull your email off of the header

Get Outlook for Android<https://aka.ms/ghei36>

From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of MIKE DURKIN Patriot121@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Monday, January 9, 2017 5:26:50 PM
To: gus.stuart@... [UHFSDR]
Subject: Re: [UHFSDR] FS: UHFSDR assembled

Did you have Si570 on it? Which one?
I'm interested .... but hard up with money till next month ... wife AND a child's birthday this month....

Get Outlook for Android<https://aka.ms/ghei36>

From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of gus.stuart@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Monday, January 9, 2017 4:12:46 PM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] FS: UHFSDR assembled

Version 1a board, assembled--only needs RG-174 jumper. Pictures available. Asking $50 shipped US only. Please contact me off list if interested.

73,
Gus, n1ccw

--
Sent from my Android device with K-9 Mail. Please excuse my brevity.

2311. Re: Free Si570

Yahoo group: UHFSDR
Date: 2017-01-13 00:38:19 UTC
From: leschyna@...
Topic: 2280 Message: 2311

FYI, just about one hour ago, I got an email from Silicon Labs with a UPS tracking number for the delivery of my sample(s).

2312. Mos recent UHFSDR_version?

Yahoo group: UHFSDR
Date: 2017-01-13 00:39:14 UTC
From: leschyna@...
Topic: 2312 Message: 2312

Has there been any updates to the PCB? What is the most recent version of this PCB?

73
Bob VE3UK

2313. Re: [UHFSDR] Mos recent UHFSDR_version?

Yahoo group: UHFSDR
Date: 2017-01-13 02:15:46 UTC
From: Dave
Topic: 2312 Message: 2313

Bob:
No recent changes to the PCB. The latest revision is R2. But, the
PCB says R1a. I am working on changes for the next run. I am planning
on including the Tiny88 USB interface on the board.

Dave - WB6DHW
<http://wb6dhw.com>

On 1/12/2017 4:39 PM, leschyna@... [UHFSDR] wrote:
>
> Has there been any updates to the PCB? What is the most recent version
> of this PCB?
>
>
> 73
>
> Bob VE3UK
>
>

2314. Re: [UHFSDR] Mos recent UHFSDR_version?

Yahoo group: UHFSDR
Date: 2017-01-13 02:19:55 UTC
From: MIKE DURKIN
Topic: 2312 Message: 2314

How about options to hit ghz region?

Get Outlook for Android<https://aka.ms/ghei36>

_____
From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of Dave dave@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Thursday, January 12, 2017 6:15:46 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Mos recent UHFSDR_version?

Bob:
No recent changes to the PCB. The latest revision is R2. But, the PCB says R1a. I am working on changes for the next run. I am planning on including the Tiny88 USB interface on the board.

Dave - WB6DHW
<http://wb6dhw.com><http://wb6dhw.com>

On 1/12/2017 4:39 PM, leschyna@...<mailto:leschyna@...> [UHFSDR] wrote:

Has there been any updates to the PCB? What is the most recent version of this PCB?

73

Bob VE3UK

2315. Re: [UHFSDR] Mos recent UHFSDR_version?

Yahoo group: UHFSDR
Date: 2017-01-13 04:22:26 UTC
From: Dave
Topic: 2312 Message: 2315

Mike:
No additional. But, there is room on the board for a filter or an amp stage. Don't recall if it was you or someone else that used the UHFSDR on 3 GHz by using the 5th harmonic of the LO. There is also a jack for using an external LO. Also, Minicircuits has several other mixers that are the same footprint as the ADE-2ADK.

Dave - WB6DHW
<http://wb6dhw.com>

On 1/12/2017 6:19 PM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>
> How about options to hit ghz region?
>
> Get Outlook for Android <https://aka.ms/ghei36>
>
> ---
> *From:* UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of
> Dave dave@... [UHFSDR] <UHFSDR@yahoogroups.com>
> *Sent:* Thursday, January 12, 2017 6:15:46 PM
> *To:* UHFSDR@yahoogroups.com
> *Subject:* Re: [UHFSDR] Mos recent UHFSDR_version?
> Bob:
> No recent changes to the PCB. The latest revision is R2. But, the
> PCB says R1a. I am working on changes for the next run. I am
> planning on including the Tiny88 USB interface on the board.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 1/12/2017 4:39 PM, leschyna@... [UHFSDR] wrote:
>>
>> Has there been any updates to the PCB? What is the most recent
>> version of this PCB?
>>
>>
>> 73
>>
>> Bob VE3UK
>>
>
>

2316. Re: [UHFSDR] Mos recent UHFSDR_version?

Yahoo group: UHFSDR
Date: 2017-01-13 05:33:47 UTC
From: MIKE DURKIN
Topic: 2312 Message: 2316

Was me ...

though the mixer does poop out slightly above 1ghz (some thing does) ... I don't have a signal generator so background noise is my source ...

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From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of Dave dave@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Thursday, January 12, 2017 8:22:26 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Mos recent UHFSDR_version?

Mike:
No additional. But, there is room on the board for a filter or an amp stage. Don't recall if it was you or someone else that used the UHFSDR on 3 GHz by using the 5th harmonic of the LO. There is also a jack for using an external LO. Also, Minicircuits has several other mixers that are the same footprint as the ADE-2ADK.

Dave - WB6DHW
<http://wb6dhw.com><http://wb6dhw.com>

On 1/12/2017 6:19 PM, MIKE DURKIN Patriot121@...<mailto:Patriot121@...> [UHFSDR] wrote:

How about options to hit ghz region?

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From: UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com> <UHFSDR@yahoogroups.com><mailto:UHFSDR@yahoogroups.com> on behalf of Dave dave@...<mailto:dave@...> [UHFSDR] <UHFSDR@yahoogroups.com><mailto:UHFSDR@yahoogroups.com>
Sent: Thursday, January 12, 2017 6:15:46 PM
To: UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>
Subject: Re: [UHFSDR] Mos recent UHFSDR_version?

Bob:
No recent changes to the PCB. The latest revision is R2. But, the PCB says R1a. I am working on changes for the next run. I am planning on including the Tiny88 USB interface on the board.

Dave - WB6DHW
<http://wb6dhw.com><http://wb6dhw.com>

On 1/12/2017 4:39 PM, leschyna@...<mailto:leschyna@...m> [UHFSDR] wrote:

Has there been any updates to the PCB? What is the most recent version of this PCB?

73

Bob VE3UK

2317. Re: [UHFSDR] Mos recent UHFSDR_version?

Yahoo group: UHFSDR
Date: 2017-01-13 15:46:30 UTC
From: MIKE DURKIN
Topic: 2312 Message: 2317

Are you still using the ade-2ask on the new board?

Get Outlook for Android<https://aka.ms/ghei36>

_____
From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of MIKE DURKIN Patriot121@msn.com [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Thursday, January 12, 2017 9:33:47 PM
To: Dave dave@... [UHFSDR]
Subject: Re: [UHFSDR] Mos recent UHFSDR_version?

Was me ...

though the mixer does poop out slightly above 1ghz (some thing does) ... I don't have a signal generator so background noise is my source ...

Get Outlook for Android<https://aka.ms/ghei36>

_____
From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of Dave dave@... [UHFSDR] <UHFSDR@...m>
Sent: Thursday, January 12, 2017 8:22:26 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Mos recent UHFSDR_version?

Mike:
No additional. But, there is room on the board for a filter or an amp stage. Don't recall if it was you or someone else that used the UHFSDR on 3 GHz by using the 5th harmonic of the LO. There is also a jack for using an external LO. Also, Minicircuits has several other mixers that are the same footprint as the ADE-2ADK.

Dave - WB6DHW
<http://wb6dhw.com><http://wb6dhw.com>

On 1/12/2017 6:19 PM, MIKE DURKIN Patriot121@...<mailto:Patriot121@...> [UHFSDR] wrote:

How about options to hit ghz region?

Get Outlook for Android<https://aka.ms/ghei36>

_____
From: UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com> <UHFSDR@yahoogroups.com><mailto:UHFSDR@yahoogroups.com> on behalf of Dave dave@...<mailto:dave@wb6dhw.com> [UHFSDR] <UHFSDR@yahoogroups.com><mailto:UHFSDR@yahoogroups.com>
Sent: Thursday, January 12, 2017 6:15:46 PM
To: UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>
Subject: Re: [UHFSDR] Mos recent UHFSDR_version?

Bob:
No recent changes to the PCB. The latest revision is R2. But, the PCB says R1a. I am working on changes for the next run. I am planning on including the Tiny88 USB interface on the board.

Dave - WB6DHW
<http://wb6dhw.com><http://wb6dhw.com>

On 1/12/2017 4:39 PM, leschyna@...<mailto:leschyna@...> [UHFSDR] wrote:

Has there been any updates to the PCB? What is the most recent version of this PCB?

73

Bob VE3UK

2318. Re: [UHFSDR] Mos recent UHFSDR_version?

Yahoo group: UHFSDR
Date: 2017-01-13 20:23:42 UTC
From: Dave
Topic: 2312 Message: 2318

Mike:
No change on the mixer. A higher frequency(at the expense of the low end) from Minicircuits Labs with the same footprint will work. I think the high frequency limit is the WBC2-1TL transformer on the mixer RF inputs. The data sheet shows it to be 5 dB down at 900 MHz.
It will be some time before I have new boards made as I still have about 30 boards left.

Dave - WB6DHW
<http://wb6dhw.com>

On 1/13/2017 7:46 AM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>
> Are you still using the ade-2ask on the new board?
>
> Get Outlook for Android <https://aka.ms/ghei36>
>
> ---
> *From:* UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of
> MIKE DURKIN Patriot121@... [UHFSDR] <UHFSDR@yahoogroups.com>
> *Sent:* Thursday, January 12, 2017 9:33:47 PM
> *To:* Dave dave@... [UHFSDR]
> *Subject:* Re: [UHFSDR] Mos recent UHFSDR_version?
>
> Was me ...
>
> though the mixer does poop out slightly above 1ghz (some thing does)
> ... I don't have a signal generator so background noise is my source ...
>
> Get Outlook for Android <https://aka.ms/ghei36>
>
> ---
> *From:* UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of
> Dave dave@... [UHFSDR] <UHFSDR@yahoogroups.com>
> *Sent:* Thursday, January 12, 2017 8:22:26 PM
> *To:* UHFSDR@yahoogroups.com
> *Subject:* Re: [UHFSDR] Mos recent UHFSDR_version?
> Mike:
> No additional. But, there is room on the board for a filter or an
> amp stage. Don't recall if it was you or someone else that used the
> UHFSDR on 3 GHz by using the 5th harmonic of the LO. There is also a
> jack for using an external LO. Also, Minicircuits has several other
> mixers that are the same footprint as the ADE-2ADK.
>
> Dave - WB6DHW

> <http://wb6dhw.com>
>
> On 1/12/2017 6:19 PM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>>
>> How about options to hit ghz region?
>>
>> Get Outlook for Android <https://aka.ms/ghei36>
>>
>> ---
>> *From:* UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of
>> Dave dave@... [UHFSDR] <UHFSDR@yahoogroups.com>
>> *Sent:* Thursday, January 12, 2017 6:15:46 PM
>> *To:* UHFSDR@yahoogroups.com
>> *Subject:* Re: [UHFSDR] Mos recent UHFSDR_version?
>> Bob:
>> No recent changes to the PCB. The latest revision is R2. But, the
>> PCB says R1a. I am working on changes for the next run. I am
>> planning on including the Tiny88 USB interface on the board.
>>
>> Dave - WB6DHW
>> <http://wb6dhw.com>
>>
>> On 1/12/2017 4:39 PM, leschyna@... [UHFSDR] wrote:
>>>
>>> Has there been any updates to the PCB? What is the most recent
>>> version of this PCB?
>>>
>>>
>>> 73
>>>
>>> Bob VE3UK
>>>
>>
>
>

2319. Re: [UHFSDR] Mos recent UHFSDR_version?

Yahoo group: UHFSDR
Date: 2017-01-13 21:50:13 UTC
From: MIKE DURKIN
Topic: 2312 Message: 2319

I remember replacing the WBC2-1TL with something else from mini-circuts ... don't remember what it was now..... I really need to take better notes, but it didn't make any difference on the low end. It didn't fit the foot print and I had removed the transformer from its plastic case ....

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From: Dave dave@... [UHFSDR]
Sent: Friday, January 13, 12:24 PM
Subject: Re: [UHFSDR] Mos recent UHFSDR_version?
To: Dave dave@... [UHFSDR]

Mike:
No change on the mixer. A higher frequency(at the expense of the low end) from Minicircuits Labs with the same footprint will work. I think the high frequency limit is the WBC2-1TL transformer on the mixer RF inputs. The data sheet shows it to be 5 dB down at 900 MHz.
It will be some time before I have new boards made as I still have about 30 boards left.

Dave - WB6DHW
<http://wb6dhw.com><http://wb6dhw.com>

On 1/13/2017 7:46 AM, MIKE DURKIN Patriot121@...<mailto:Patriot121@...> [UHFSDR] wrote:

Are you still using the ade-2ask on the new board?

Get Outlook for Android<https://aka.ms/ghei36>

From: UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>
<UHFSDR@yahoogroups.com><mailto:UHFSDR@yahoogroups.com> on behalf of MIKE DURKIN
Patriot121@msn.com<mailto:Patriot121@...> [UHFSDR]
<UHFSDR@yahoogroups.com><mailto:UHFSDR@yahoogroups.com>
Sent: Thursday, January 12, 2017 9:33:47 PM
To: Dave dave@...<mailto:dave@...> [UHFSDR]
Subject: Re: [UHFSDR] Mos recent UHFSDR_version?

Was me ...

though the mixer does poop out slightly above 1ghz (some thing does) ... I don't have a signal generator so background noise is my source ...

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From: UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>
<UHFSDR@yahoogroups.com><mailto:UHFSDR@yahoogroups.com> on behalf of Dave
dave@wb6dhw.com<mailto:dave@...> [UHFSDR]
<UHFSDR@yahoogroups.com><mailto:UHFSDR@yahoogroups.com>
Sent: Thursday, January 12, 2017 8:22:26 PM
To: UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>

Subject: Re: [UHFSDR] Mos recent UHFSDR_version?

Mike:
No additional. But, there is room on the board for a filter or an amp stage. Don't recall if it was you or someone else that used the UHFSDR on 3 GHz by using the 5th harmonic of the LO. There is also a jack for using an external LO. Also, Minicircuits has several other mixers that are the same footprint as the ADE-2ADK.

Dave - WB6DHW
<http://wb6dhw.com><http://wb6dhw.com>

On 1/12/2017 6:19 PM, MIKE DURKIN Patriot121@...<mailto:Patriot121@...> [UHFSDR] wrote:

How about options to hit ghz region?

Get Outlook for Android<https://aka.ms/ghei36>

From: UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>
<UHFSDR@yahoogroups.com><mailto:UHFSDR@yahoogroups.com> on behalf of Dave
dave@...<mailto:dave@...> [UHFSDR] <UHFSDR@yahoogroups.com><mailto:UHFSDR@yahoogroups.com>
Sent: Thursday, January 12, 2017 6:15:46 PM
To: UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>
Subject: Re: [UHFSDR] Mos recent UHFSDR_version?

Bob:
No recent changes to the PCB. The latest revision is R2. But, the PCB says R1a. I am working on changes for the next run. I am planning on including the Tiny88 USB interface on the board.

Dave - WB6DHW
<http://wb6dhw.com><http://wb6dhw.com>

On 1/12/2017 4:39 PM, leschyna@...<mailto:leschyna@...> [UHFSDR] wrote:

Has there been any updates to the PCB? What is the most recent version of this PCB?

73

Bob VE3UK

2320. Re: [UHFSDR] Mos recent UHFSDR_version?

Yahoo group: UHFSDR
Date: 2017-01-13 23:11:56 UTC
From: Jim Sanford
Topic: 2312 Message: 2320

Will the Tiny88 completely replace the functionality of the USB2SDR??

73,

Jim

wb4gcs@...

On 1/12/2017 9:15 PM, Dave dave@... [UHFSDR] wrote:
>
> Bob:
> No recent changes to the PCB. The latest revision is R2. But, the
> PCB says R1a. I am working on changes for the next run. I am
> planning on including the Tiny88 USB interface on the board.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 1/12/2017 4:39 PM, leschyna@... [UHFSDR] wrote:
>>
>> Has there been any updates to the PCB? What is the most recent
>> version of this PCB?
>>
>>
>> 73
>>
>> Bob VE3UK
>>
>
>

This email has been checked for viruses by Avast antivirus software.
https://www.avast.com/antivirus

2321. Re: [UHFSDR] Mos recent UHFSDR_version?

Yahoo group: UHFSDR
Date: 2017-01-13 23:44:14 UTC
From: Dave
Topic: 2312 Message: 2321

Yes. The USB2SDR contains a Tiny85. The new board will contain the same.

Dave - WB6DHW
<http://wb6dhw.com>

On 1/13/2017 3:11 PM, Jim Sanford wb4gcs@... [UHFSDR] wrote:
>
> Will the Tiny88 completely replace the functionality of the USB2SDR??
>
> 73,
>
> Jim
>
> wb4gcs@...
>
>
>
> On 1/12/2017 9:15 PM, Dave dave@... [UHFSDR] wrote:
>>
>> Bob:
>> No recent changes to the PCB. The latest revision is R2. But, the
>> PCB says R1a. I am working on changes for the next run. I am
>> planning on including the Tiny88 USB interface on the board.
>>
>> Dave - WB6DHW
>> <http://wb6dhw.com>
>>
>> On 1/12/2017 4:39 PM, leschyna@... [UHFSDR] wrote:
>>>
>>> Has there been any updates to the PCB? What is the most recent
>>> version of this PCB?
>>>
>>>
>>> 73
>>>
>>> Bob VE3UK
>>>
>>
>
>
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> ---
> Avast logo <https://www.avast.com/antivirus>
>
> This email has been checked for viruses by Avast antivirus software.

> www.avast.com <https://www.avast.com/antivirus>
>
>
>

2322. Opamp gain

Yahoo group: UHFSDR
Date: 2017-01-21 02:10:56 UTC
From: MIKE DURKIN
Topic: 2322 Message: 2322

Iv been wondering if a change in Rx opamp gain is needed with the 54 (honestly I can't remember the part number -- the upgrade with lower noise figure)

On 2m I do get overloaded ....

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2323. Re: Opamp gain

Yahoo group: UHFSDR
Date: 2017-01-21 20:54:47 UTC
From: MIKE DURKIN
Topic: 2322 Message: 2323

When using a SPF50432 for U4 ....

From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of MIKE DURKIN Patriot121@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Friday, January 20, 2017 6:10 PM
To: UHFSDR UHFSDR
Subject: [UHFSDR] Opamp gain

Iv been wondering if a change in Rx opamp gain is needed with the 54 (honestly I can't remember the part number -- the upgrade with lower noise figure)

On 2m I do get overloaded ....

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2324. Re: [UHFSDR] Opamp gain

Yahoo group: UHFSDR
Date: 2017-01-22 17:30:28 UTC
From: Jean-Paul Louis
Topic: 2322 Message: 2324

Mike

I assume you meant SPF-5043Z, as SPF-50432 doesn’t seem to exist in the now defunct RFMD catalog.
RFMD was acquired by Triquint, and a lot of good things from RFMD have now disappeared.

Just curious,
Jean-Paul
N1JPL

> On Jan 21, 2017, at 3:54 PM, MIKE DURKIN Patriot121@... [UHFSDR] <UHFSDR@yahoogroups.com> wrote:
>
>
> When using a SPF50432 for U4 ....
>
>
>
> From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of MIKE DURKIN Patriot121@... [UHFSDR] <UHFSDR@yahoogroups.com>
> Sent: Friday, January 20, 2017 6:10 PM
> To: UHFSDR UHFSDR
> Subject: [UHFSDR] Opamp gain
>
>
>
> Iv been wondering if a change in Rx opamp gain is needed with the 54 (honestly I can't remember the part number -- the upgrade with lower noise figure)
>
> On 2m I do get overloaded ....
>
>
> Get Outlook for Android
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>
>

2325. Re: [UHFSDR] Opamp gain

Yahoo group: UHFSDR
Date: 2017-01-22 17:34:16 UTC
From: MIKE DURKIN
Topic: 2322 Message: 2325

Probably ....

I was using my phone then and I'm using my phone now and I just simply copied and pasted out of another email I made a while ago ....

I'm not entirely sure what I'm overloading right now. It's only seen on two Local 2 meter repeaters and both of them are relatively close to me. It's either u4 or the opamp.

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From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of Jean-Paul Louis louijp@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Sunday, January 22, 2017 9:30:28 AM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Opamp gain

Mike

I assume you meant SPF-5043Z, as SPF-50432 doesn't seem to exist in the now defunct RFMD catalog.
RFMD was acquired by Triquint, and a lot of good things from RFMD have now disappeared.

Just curious,
Jean-Paul
N1JPL

> On Jan 21, 2017, at 3:54 PM, MIKE DURKIN Patriot121@... [UHFSDR] <UHFSDR@yahoogroups.com> wrote:
>
>
> When using a SPF50432 for U4 ....
>
>
>
> From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of MIKE DURKIN Patriot121@... [UHFSDR] <UHFSDR@yahoogroups.com>
> Sent: Friday, January 20, 2017 6:10 PM
> To: UHFSDR UHFSDR
> Subject: [UHFSDR] Opamp gain
>
>
>
> Iv been wondering if a change in Rx opamp gain is needed with the 54 (honestly I can't remember the part number -- the upgrade with lower noise figure)
>
> On 2m I do get overloaded ....

>
>
> Get Outlook for Android
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>

2326. SDR4NET, A New SDR Project

Yahoo group: UHFSDR
Date: 2017-02-04 12:40:32 UTC
From: sv1eia@...
Topic: 2326 Message: 2326

Dear fellow radio amateurs and homebrew SDR enthousiasts,

A New SDR Project campaign has just launched !

-> https://igg.me/at/sdr4net https://igg.me/at/sdr4net

Let me address this announcement to all of you, either having a homebrew/DIY SDR or considering to move into the wonderful new world of Software Defined Radio.

A project that will provide to SDR users a specifically designed device for the needs of homebrew SDRs and also of other commercial rigs like KX3 (we are working also on a SDR1K version via an add-on).
With ease of setup and operating right out of the box in a networking environment.

Its a project that will allow any owner of Ensemble RxTx, UHFSDR, Lima-SDR, FA-SDR, or any equivalent homebrew SDR based on IQ input/output, to have proper operation, by providing a dedicated SDR ADC/DAC device designed for radio amateur use.

Special effort has been given for the owners of KX3 who now will have the ability to work seamlessly with PowerSDR when connected.

All users can now have the opportunity to get the benefits of hassle-free operation in all new Windows verisons 8/10, plus the ability to experiment in Linux and Android with their rig, and all those benefits come with the high-end dynamic range of AK5394A ADC.

The solution relies on ethernet networking and with its driverless setup makes users free from driver installation and configuration issues.

For those who would like more information, here is the inital campaign announcement on the powersdr-iq support group

-> https://groups.yahoo.com/neo/groups/powersdr-iq/conversations/messages/3298
https://groups.yahoo.com/neo/groups/powersdr-iq/conversations/messages/3298

Best regards & 73,

Christos SV1EIA

2327. Re: [UHFSDR] SDR4NET, A New SDR Project

Yahoo group: UHFSDR
Date: 2017-02-04 14:18:43 UTC
From: MIKE DURKIN
Topic: 2326 Message: 2327

Is it compatible with LimeSdr?

Get Outlook for Android<https://aka.ms/ghei36>

_____
From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of sv1eia@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Saturday, February 4, 2017 4:40:32 AM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] SDR4NET, A New SDR Project

Dear fellow radio amateurs and homebrew SDR enthousiasts,

A New SDR Project campaign has just launched !

-> https://igg.me/at/sdr4net

Let me address this announcement to all of you, either having a homebrew/DIY SDR or considering to move into the wonderful new world of Software Defined Radio.

A project that will provide to SDR users a specifically designed device for the needs of homebrew SDRs and also of other commercial rigs like KX3 (we are working also on a SDR1K version via an add-on).
With ease of setup and operating right out of the box in a networking environment.

Its a project that will allow any owner of Ensemble RxTx, UHFSDR, Lima-SDR, FA-SDR, or any equivalent homebrew SDR based on IQ input/output, to have proper operation, by providing a dedicated SDR ADC/DAC device designed for radio amateur use.

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The solution relies on ethernet networking and with its driverless setup makes users free from driver installation and configuration issues.

For those who would like more information, here is the inital campaign announcement on the powersdr-iq support group

-> https://groups.yahoo.com/neo/groups/powersdr-iq/conversations/messages/3298

Best regards & 73,

Christos SV1EIA

2328. git source owner

Yahoo group: UHFSDR
Date: 2017-02-14 01:02:16 UTC
From: MIKE DURKIN
Topic: 2328 Message: 2328

Im hoping some one here will know who is the owner of
https://github.com/roseengineering?tab=repositories

roseengineering / Repositories ·
GitHub<https://github.com/roseengineering?tab=repositories>
github.com
roseengineering has 20 repositories available. Follow their code on GitHub.

I cant find any information on the owner .... im hoping to get them to update the rtlsdr for quisk plugin ...

2329. Si570 cannot change frequency

Yahoo group: UHFSDR
Date: 2017-05-05 18:03:36 UTC
From: Marc.olanie@...
Topic: 2329 Message: 2329

Hi
I've a strange behavior on a UHFSDR

- Si570 AAA000112G (LVPECL) has been changed 3 times with a brand new component
- Adum has been changed, checked and is working
- a I2C query gives me the address of the oscillator in 055 (meaning the Si570 responds correctly to I2C)
- Vdd is 3.29V
- F output is 10 MHz, default starting frequency. Both outputs are OK (out of phase one to the other, clean square signal)
- signal is approximately 0.5V peak
- the I2C controler works perfectly with any other Si570 based rig (several Softrock, another UHFSDR with a Cmos Si570...)
- I2C cables are as short as possible
- components have been checked several times
- the rest of the UHFSDR is working as advertised... but on 5 MHz only
- OE -positive enable- shuts the output down when grounded... as expected
- SDA and SCL are clearly seen on my scope when I'm trying to change de frequency. Doing this makes the output "shivering" with a really strong jitter. But the signal stabilize as soon as I release the VFO encoder, and the frequency is blocked again on 10 MHz

all AAA XO's are SiLabs samples

Did someone had similar problems ? I must admit, I really don't understand what's happening

73'
Marc f6itu

2330. RE: [UHFSDR] Si570 cannot change frequency

Yahoo group: UHFSDR
Date: 2017-05-05 18:53:49 UTC
From: Marc OLANIE
Topic: 2329 Message: 2330

One more info
I just replaced the Si570 with Cmos component (CAC000141DG) coming from an old softrock… everything runs fine, frequency can be changed… it is definitely not an I2C problem or a microcontroller issue

Marc

De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
Envoyé : vendredi 5 mai 2017 20:04
À : UHFSDR@yahoogroups.com
Objet : [UHFSDR] Si570 cannot change frequency

Hi

I've a strange behavior on a UHFSDR

- Si570 AAA000112G (LVPECL) has been changed 3 times with a brand new component

- Adum has been changed, checked and is working

- a I2C query gives me the address of the oscillator in 055 (meaning the Si570 responds correctly to I2C)

- Vdd is 3.29V

- F output is 10 MHz, default starting frequency. Both outputs are OK (out of phase one to the other, clean square signal)

- signal is approximately 0.5V peak

- the I2C controler works perfectly with any other Si570 based rig (several Softrock, another UHFSDR with a Cmos Si570...)

- I2C cables are as short as possible

- components have been checked several times

- the rest of the UHFSDR is working as advertised... but on 5 MHz only

- OE -positive enable- shuts the output down when grounded... as expected

- SDA and SCL are clearly seen on my scope when I'm trying to change de frequency. Doing this makes the output "shivering" with a really strong jitter. But the signal stabilize as soon as I release the VFO encoder, and the frequency is blocked again on 10 MHz

all AAA XO's are SiLabs samples

Did someone had similar problems ? I must admit, I really don't understand what's happening

73'

Marc f6itu

2331. Re: [UHFSDR] Si570 cannot change frequency

Yahoo group: UHFSDR
Date: 2017-05-05 18:54:32 UTC
From: Dave
Topic: 2329 Message: 2331

Hi Marc:
What are you using to control the board? Are the connections to H1.
Pin 1 is the Vdd from the controller and pin 2 is the ground from the
controller(NOT the same as the ground on the board - they are
isolated). Are R61 and R62 1K. You could try increasing them. Does
sound like an I2C problem. The Si570 will reset to the default value if
it doesn't understand the I2C command.

Dave - WB6DHW
HTTP://WB6DHW.COM

On 5/5/2017 11:03 AM, Marc.olanie@... [UHFSDR] wrote:
>
> Hi
>
> I've a strange behavior on a UHFSDR
>
>
> - Si570 AAA000112G (LVPECL) has been changed 3 times with a brand new
> component
>
> - Adum has been changed, checked and is working
>
> - a I2C query gives me the address of the oscillator in 055 (meaning
> the Si570 responds correctly to I2C)
>
> - Vdd is 3.29V
>
> - F output is 10 MHz, default starting frequency. Both outputs are OK
> (out of phase one to the other, clean square signal)
>
> - signal is approximately 0.5V peak
>
> - the I2C controler works perfectly with any other Si570 based rig
> (several Softrock, another UHFSDR with a Cmos Si570...)
>
> - I2C cables are as short as possible
>
> - components have been checked several times
>
> - the rest of the UHFSDR is working as advertised... but on 5 MHz only
>
> - OE -positive enable- shuts the output down when grounded... as expected
>
> - SDA and SCL are clearly seen on my scope when I'm trying to change

> de frequency. Doing this makes the output "shivering" with a really
> strong jitter. But the signal stabilize as soon as I release the VFO
> encoder, and the frequency is blocked again on 10 MHz
>
>
> all AAA XO's are SiLabs samples
>
>
> Did someone had similar problems ? I must admit, I really don't
> understand what's happening
>
>
> 73'
>
> Marc f6itu
>
>
>
>

2332. RE: [UHFSDR] Si570 cannot change frequency

Yahoo group: UHFSDR
Date: 2017-05-05 19:16:54 UTC
From: Marc OLANIE
Topic: 2329 Message: 2332

Hi Dave
Connections are on H1 (and H1 is correctly wired, as my Cmos Si570 accepts order and my I2C Scanner detect the XO)
Right now, I'm using a STM32-SDR to control the board, but I also tried a SDR-Widget and a personal hack with an Arduino. All of them are running without problem

I2C pull-up are 1K. I'll try to increase this tomorrow. LVPECL is probably less tolerant than Cmos.
I hope you've find the culprit… I'm working on this problem since Wednesday :- (

Thank you, Dave
Marc f6itu

De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
Envoyé : vendredi 5 mai 2017 20:55
À : UHFSDR@yahoogroups.com
Objet : Re: [UHFSDR] Si570 cannot change frequency

Hi Marc:
What are you using to control the board? Are the connections to H1. Pin 1 is the Vdd from the controller and pin 2 is the ground from the controller(NOT the same as the ground on the board - they are isolated). Are R61 and R62 1K. You could try increasing them. Does sound like an I2C problem. The Si570 will reset to the default value if it doesn't understand the I2C command.

Dave - WB6DHW
HTTP://WB6DHW.COM

On 5/5/2017 11:03 AM, Marc.olanie@decision.fr<mailto:Marc.olanie@decision.fr> [UHFSDR] wrote:

Hi

I've a strange behavior on a UHFSDR

- Si570 AAA000112G (LVPECL) has been changed 3 times with a brand new component

- Adum has been changed, checked and is working

- a I2C query gives me the address of the oscillator in 055 (meaning the Si570 responds correctly to I2C)

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- F output is 10 MHz, default starting frequency. Both outputs are OK (out of phase one to the other, clean square signal)

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all AAA XO's are SiLabs samples

Did someone had similar problems ? I must admit, I really don't understand what's happening

73'

Marc f6itu

2333. Re: [UHFSDR] Si570 cannot change frequency

Yahoo group: UHFSDR
Date: 2017-05-05 20:22:56 UTC
From: Sid Boyce
Topic: 2329 Message: 2333

It took me many months troubleshooting only to find that the 2 free samples from SiLabs and one spare donated by GI1CET were all DOA.

Eventually I got one from George Boudreau and my UHFSDR sprung into life.

I suspect that the free samples are not full functioning devices and depending on luck, they may or may not work.
73 ... Sid.

On 05/05/17 20:16, Marc OLANIE Marc.olanie@... [UHFSDR] wrote:
>
> Hi Dave
>
> Connections are on H1 (and H1 is correctly wired, as my Cmos Si570
> accepts order and my I2C Scanner detect the XO)
>
> Right now, I’m using a STM32-SDR to control the board, but I also
> tried a SDR-Widget and a personal hack with an Arduino. All of them
> are running without problem
>
> I2C pull-up are 1K. I’ll try to increase this tomorrow. LVPECL is
> probably less tolerant than Cmos.
>
> I hope you’ve find the culprit… I’m working on this problem
> since Wednesday :- (
>
> Thank you, Dave
>
> Marc f6itu
>
> *De :*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
> *Envoyé :* vendredi 5 mai 2017 20:55
> *À :* UHFSDR@yahoogroups.com
> *Objet :* Re: [UHFSDR] Si570 cannot change frequency
>
>
>
>
> Hi Marc:
> What are you using to control the board? Are the connections to
> H1. Pin 1 is the Vdd from the controller and pin 2 is the ground from
> the controller(NOT the same as the ground on the board - they are
> isolated). Are R61 and R62 1K. You could try increasing them. Does
> sound like an I2C problem. The Si570 will reset to the default value
> if it doesn't understand the I2C command.
>

> Dave - WB6DHW
> HTTP://WB6DHW.COM
>
> On 5/5/2017 11:03 AM, Marc.olanie@...
> <mailto:Marc.olanie@...> [UHFSDR] wrote:
>
> Hi
>
> I've a strange behavior on a UHFSDR
>
> - Si570 AAA000112G (LVPECL) has been changed 3 times with a
> brand new component
>
> - Adum has been changed, checked and is working
>
> - a I2C query gives me the address of the oscillator in 055
> (meaning the Si570 responds correctly to I2C)
>
> - Vdd is 3.29V
>
> - F output is 10 MHz, default starting frequency. Both outputs are
> OK (out of phase one to the other, clean square signal)
>
> - signal is approximately 0.5V peak
>
> - the I2C controler works perfectly with any other Si570 based rig
> (several Softrock, another UHFSDR with a Cmos Si570...)
>
> - I2C cables are as short as possible
>
> - components have been checked several times
>
> - the rest of the UHFSDR is working as advertised... but on 5 MHz
> only
>
> - OE -positive enable- shuts the output down when grounded... as
> expected
>
> - SDA and SCL are clearly seen on my scope when I'm trying to
> change de frequency. Doing this makes the output "shivering" with
> a really strong jitter. But the signal stabilize as soon as I
> release the VFO encoder, and the frequency is blocked again on 10 MHz
>
> all AAA XO's are SiLabs samples
>
> Did someone had similar problems ? I must admit, I really don't
> understand what's happening
>
> 73'
>

> Marc f6itu
>
>
>
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

2334. Re: [UHFSDR] Si570 cannot change frequency

Yahoo group: UHFSDR
Date: 2017-05-05 20:37:33 UTC
From: Milt Cram
Topic: 2329 Message: 2334

On 5/5/2017 1:03 PM, Marc.olanie@... [UHFSDR] wrote:
>
> Hi
>
> I've a strange behavior on a UHFSDR
>
>
> - Si570 AAA000112G (LVPECL) has been changed 3 times with a brand new
> component
>
> - Adum has been changed, checked and is working
>
> - a I2C query gives me the address of the oscillator in 055 (meaning
> the Si570 responds correctly to I2C)
>
> - Vdd is 3.29V
>
> - F output is 10 MHz, default starting frequency. Both outputs are OK
> (out of phase one to the other, clean square signal)
>
> - signal is approximately 0.5V peak
>
> - the I2C controler works perfectly with any other Si570 based rig
> (several Softrock, another UHFSDR with a Cmos Si570...)
>
> - I2C cables are as short as possible
>
> - components have been checked several times
>
> - the rest of the UHFSDR is working as advertised... but on 5 MHz only
>
> - OE -positive enable- shuts the output down when grounded... as expected
>
> - SDA and SCL are clearly seen on my scope when I'm trying to change
> de frequency. Doing this makes the output "shivering" with a really
> strong jitter. But the signal stabilize as soon as I release the VFO
> encoder, and the frequency is blocked again on 10 MHz
>
>
> all AAA XO's are SiLabs samples
>
>
> Did someone had similar problems ? I must admit, I really don't
> understand what's happening
>

>
> 73'
>
> Marc f6itu
>
>
>
Marc,

I believe that SiLabs offers the Si570 with a fixed output frequency.
Could your samples be some of these?

73, Milt
W8NUE

2335. Re: [UHFSDR] Si570 cannot change frequency

Yahoo group: UHFSDR
Date: 2017-05-05 23:24:26 UTC
From: Dave
Topic: 2329 Message: 2335

Check the bypass capacitors(C45 and C46). Make sure they are connected to the Si570 supply pins and to the 3.3V. I am working on a front panel with a Si570 and had similar problems to yours. Found out I forgot to put in a bypass capacitor. When I added the capacitor, the problems went away.

Dave - WB6DHW
<http://wb6dhw.com>

On 5/5/2017 1:37 PM, Milt Cram w8nue@... [UHFSDR] wrote:
>
> On 5/5/2017 1:03 PM, Marc.olanie@... [UHFSDR] wrote:
>>
>> Hi
>>
>> I've a strange behavior on a UHFSDR
>>
>>
>> - Si570 AAA000112G (LVPECL) has been changed 3 times with a brand new
>> component
>>
>> - Adum has been changed, checked and is working
>>
>> - a I2C query gives me the address of the oscillator in 055 (meaning
>> the Si570 responds correctly to I2C)
>>
>> - Vdd is 3.29V
>>
>> - F output is 10 MHz, default starting frequency. Both outputs are OK
>> (out of phase one to the other, clean square signal)
>>
>> - signal is approximately 0.5V peak
>>
>> - the I2C controler works perfectly with any other Si570 based rig
>> (several Softrock, another UHFSDR with a Cmos Si570...)
>>
>> - I2C cables are as short as possible
>>
>> - components have been checked several times
>>
>> - the rest of the UHFSDR is working as advertised... but on 5 MHz only
>>
>> - OE -positive enable- shuts the output down when grounded... as expected
>>
>> - SDA and SCL are clearly seen on my scope when I'm trying to change

>> de frequency. Doing this makes the output "shivering" with a really
>> strong jitter. But the signal stabilize as soon as I release the VFO
>> encoder, and the frequency is blocked again on 10 MHz
>>
>>
>> all AAA XO's are SiLabs samples
>>
>>
>> Did someone had similar problems ? I must admit, I really don't
>> understand what's happening
>>
>>
>> 73'
>>
>> Marc f6itu
>>
>>
>>
> Marc,
>
> I believe that SiLabs offers the Si570 with a fixed output frequency.
> Could your samples be some of these?
>
> 73, Milt
> W8NUE
>

2336. RE: [UHFSDR] Si570 cannot change frequency

Yahoo group: UHFSDR
Date: 2017-05-06 08:42:45 UTC
From: Marc OLANIE
Topic: 2329 Message: 2336

Hi
No more tests today… I'm stuck and don't have other explanations than a series of dead Si570.

>I believe that SiLabs offers the Si570 with a fixed output frequency. Could your samples be some of these?

Hi Milt. Where did you got this info ? It's the first time I heard about that, but it could confirm my diagnostic. I really don't see why SiLabs would have such an attitude… but who knows

>It took me many months troubleshooting only to find that the 2 free samples from SiLabs and one spare donated by GI1CET were all DOA.

Hi Sid. I remember you message mentioning this possibility… was it 1 or 2 years ago ?. When you say "dead", was it really dead -no heartbeat at all :-) – or was it oscillating without responding to any I2C injunction ?

Dave got some of these samples too (in fact, I ask for my Si570 after his announcement on this mailing list). Where they all full functional ?
Dave, you asked :

>What are you using to control the board?
Right now, an STM32SDR, but I have the same behavior with other control boards.

* Are the connections to H1. Pin 1 is the Vdd from the controller and pin 2 is the ground from the controller(NOT the same as the ground on the board - they are isolated).

Yes Dave. I burned an ADUM 2 years ago when I forgot this cabling :- / … no error this side of the circuit. My Arduino-based I2C Scanner wouldn't show any dialog with the Si570 if H1 if I messed with H1

* Are R61 and R62 1K. You could try increasing them.

They are. I tried to increase to 3.3 k without any change

* Check the bypass capacitors(C45 and C46).

Checked and changed all decoupling caps… no reactions, Si570 still working on 10MHz. Noise on the 3.3 rail is really low

I'll change the Si570 with a lvds next month
Thanks to all of you for your help and support.
So far, I'm the happy owner of 4 dead Si570 AAA grade. I'm pretty sure it's a Guinness record
73'
Marc f6itu

2337. Re: [UHFSDR] Si570 cannot change frequency

Yahoo group: UHFSDR
Date: 2017-05-06 18:51:15 UTC
From: Dave
Topic: 2329 Message: 2337

Marc:
I have not seen a dead Si570 from SiLabs. But, I have several I have not installed. I also have not heard of a fixed freq Si570. SiLabs does have some fixed freq devices based on the Si570, but with different part numbers(Si530, etc). But, the fixed freq devices do not have pins 7 and 8.

Dave - WB6DHW
<http://wb6dhw.com>

On 5/6/2017 1:42 AM, Marc OLANIE Marc.olanie@... [UHFSDR] wrote:
>
> Hi
>
> No more tests today… I’m stuck and don’t have other explanations than
> a series of dead Si570.
>
> *>*I believe that SiLabs offers the Si570 with a fixed output
> frequency. Could your samples be some of these?
>
> Hi Milt. Where did you got this info ? It’s the first time I heard
> about that, but it could confirm my diagnostic. I really don’t see why
> SiLabs would have such an attitude… but who knows
>
> >It took me many months troubleshooting only to find that the 2 free samples from
> SiLabs and one spare donated by GI1CET were all DOA.
>
> Hi Sid. I remember you message mentioning this possibility… was it 1
> or 2 years ago ?. When you say “dead”, was it really dead -no
> heartbeat at all :-) – or was it oscillating without responding to
> any I2C injunction ?
>
> Dave got some of these samples too (in fact, I ask for my Si570 after
> his announcement on this mailing list). Where they all full functional ?
>
> Dave, you asked :
>
> >What are you using to control the board?
>
> Right now, an STM32SDR, but I have the same behavior with other
> control boards.
>
> * Are the connections to H1. Pin 1 is the Vdd from the controller
> and pin 2 is the ground from the controller(NOT the same as the
> ground on the board - they are isolated).
>

> Yes Dave. I burned an ADUM 2 years ago when I forgot this cabling :- /
> … no error this side of the circuit. My Arduino-based I2C Scanner
> wouldn’t show any dialog with the Si570 if H1 if I messed with H1
>
> * Are R61 and R62 1K. You could try increasing them.
>
> They are. I tried to increase to 3.3 k without any change
>
> * Check the bypass capacitors(C45 and C46).
>
> Checked and changed all decoupling caps… no reactions, Si570 still
> working on 10MHz. Noise on the 3.3 rail is really low
>
> I’ll change the Si570 with a lvds next month
>
> Thanks to all of you for your help and support.
>
> So far, I’m the happy owner of 4 dead Si570 AAA grade. I’m pretty sure
> it’s a Guinness record
>
> 73’
>
> Marc f6itu
>
>

2338. Re: [UHFSDR] Si570 cannot change frequency

Yahoo group: UHFSDR
Date: 2017-05-06 19:04:52 UTC
From: Dave
Topic: 2329 Message: 2338

Marc:
Did you get the 7ppm temperature tolerance parts? SiLabs changed
the registers on the 7 ppm parts. If the software does not take that
into account, then they would not program.

Dave - WB6DHW
<http://wb6dhw.com>

On 5/6/2017 1:42 AM, Marc OLANIE Marc.olanie@... [UHFSDR] wrote:
>
> Hi
>
> No more tests today… I’m stuck and don’t have other explanations than
> a series of dead Si570.
>
> *>*I believe that SiLabs offers the Si570 with a fixed output
> frequency. Could your samples be some of these?
>
> Hi Milt. Where did you got this info ? It’s the first time I heard
> about that, but it could confirm my diagnostic. I really don’t see why
> SiLabs would have such an attitude… but who knows
>
> >It took me many months troubleshooting only to find that the 2 free samples from
> SiLabs and one spare donated by GI1CET were all DOA.
>
> Hi Sid. I remember you message mentioning this possibility… was it 1
> or 2 years ago ?. When you say “dead”, was it really dead -no
> heartbeat at all :-) – or was it oscillating without responding to
> any I2C injunction ?
>
> Dave got some of these samples too (in fact, I ask for my Si570 after
> his announcement on this mailing list). Where they all full functional ?
>
> Dave, you asked :
>
> >What are you using to control the board?
>
> Right now, an STM32SDR, but I have the same behavior with other
> control boards.
>
> * Are the connections to H1. Pin 1 is the Vdd from the controller
> and pin 2 is the ground from the controller(NOT the same as the
> ground on the board - they are isolated).
>
> Yes Dave. I burned an ADUM 2 years ago when I forgot this cabling :- /

> … no error this side of the circuit. My Arduino-based I2C Scanner
> wouldn’t show any dialog with the Si570 if H1 if I messed with H1
>
> * Are R61 and R62 1K. You could try increasing them.
>
> They are. I tried to increase to 3.3 k without any change
>
> * Check the bypass capacitors(C45 and C46).
>
> Checked and changed all decoupling caps… no reactions, Si570 still
> working on 10MHz. Noise on the 3.3 rail is really low
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> I’ll change the Si570 with a lvds next month
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> Thanks to all of you for your help and support.
>
> So far, I’m the happy owner of 4 dead Si570 AAA grade. I’m pretty sure
> it’s a Guinness record
>
> 73’
>
> Marc f6itu
>
>

2339. RE: [UHFSDR] Si570 cannot change frequency

Yahoo group: UHFSDR
Date: 2017-05-06 19:28:16 UTC
From: Marc OLANIE
Topic: 2329 Message: 2339

Hi Dave

That’s not impossible… I frankly don’t remember. But if you ask any ham to choose between a 7ppm and a 20 ppm part…

Thank you, Dave. It is the most logical explanation. I’ll look at these differences and try to write a piece of code (or patch an existing one)

:-))
73’
Marc f6itu

De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
Envoyé : samedi 6 mai 2017 21:05
À : UHFSDR@yahoogroups.com
Objet : Re: [UHFSDR] Si570 cannot change frequency

Marc:
Did you get the 7ppm temperature tolerance parts? SiLabs changed the registers on the 7 ppm parts. If the software does not take that into account, then they would not program.

Dave - WB6DHW
<http://wb6dhw.com><http://wb6dhw.com>

On 5/6/2017 1:42 AM, Marc OLANIE Marc.olanie@decision.fr<mailto:Marc.olanie@decision.fr> [UHFSDR] wrote:

Hi
No more tests today… I’m stuck and don’t have other explanations than a series of dead Si570.

>I believe that SiLabs offers the Si570 with a fixed output frequency. Could your samples be some of these?

Hi Milt. Where did you got this info ? It’s the first time I heard about that, but it could confirm my diagnostic. I really don’t see why SiLabs would have such an attitude… but who knows

>It took me many months troubleshooting only to find that the 2 free samples from SiLabs and one spare donated by GI1CET were all DOA.

Hi Sid. I remember you message mentioning this possibility… was it 1 or 2 years ago ?. When you say “dead”, was it really dead -no heartbeat at all :-) – or was it oscillating without responding to any I2C injunction ?

Dave got some of these samples too (in fact, I ask for my Si570 after his announcement on this mailing list). Where they all full functional ?
Dave, you asked :

>What are you using to control the board?
Right now, an STM32SDR, but I have the same behavior with other control boards.

* Are the connections to H1. Pin 1 is the Vdd from the controller and pin 2 is the ground from the controller(NOT the same as the ground on the board - they are isolated).

Yes Dave. I burned an ADUM 2 years ago when I forgot this cabling :- / … no error this side of the circuit. My Arduino-based I2C Scanner wouldn’t show any dialog with the Si570 if H1 if I messed with H1

* Are R61 and R62 1K. You could try increasing them.

They are. I tried to increase to 3.3 k without any change

* Check the bypass capacitors(C45 and C46).

Checked and changed all decoupling caps… no reactions, Si570 still working on 10MHz. Noise on the 3.3 rail is really low

I’ll change the Si570 with a lvds next month
Thanks to all of you for your help and support.
So far, I’m the happy owner of 4 dead Si570 AAA grade. I’m pretty sure it’s a Guinness record
73’
Marc f6itu

2340. Re: [UHFSDR] Si570 cannot change frequency

Yahoo group: UHFSDR
Date: 2017-05-06 19:51:27 UTC
From: Dave
Topic: 2329 Message: 2340

Marc:
Copy the part # down and enter it into the SiLabs part number search form. It will tell you what you got.

Dave - WB6DHW
<http://wb6dhw.com>

On 5/6/2017 12:28 PM, Marc OLANIE Marc.olanie@... [UHFSDR] wrote:
>
> Hi Dave
>
> That’s not impossible… I frankly don’t remember. But if you ask any
> ham to choose between a 7ppm and a 20 ppm part…
>
> Thank you, Dave. It is the most logical explanation. I’ll look at
> these differences and try to write a piece of code (or patch an
> existing one)
>
> :-))
>
> 73’
>
> Marc f6itu
>
> *De :*UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
> *Envoyé :* samedi 6 mai 2017 21:05
> *À :* UHFSDR@yahoogroups.com
> *Objet :* Re: [UHFSDR] Si570 cannot change frequency
>
>
>
>
> Marc:
> Did you get the 7ppm temperature tolerance parts? SiLabs changed the
> registers on the 7 ppm parts. If the software does not take that into
> account, then they would not program.
>
> Dave - WB6DHW
> <http://wb6dhw.com> <http://wb6dhw.com>
>
> On 5/6/2017 1:42 AM, Marc OLANIE Marc.olanie@...
> <mailto:Marc.olanie@...> [UHFSDR] wrote:
>
> Hi
>

> No more tests today… I’m stuck and don’t have other explanations
> than a series of dead Si570.
>
> *>*I believe that SiLabs offers the Si570 with a fixed output
> frequency. Could your samples be some of these?
>
> Hi Milt. Where did you got this info ? It’s the first time I heard
> about that, but it could confirm my diagnostic. I really don’t see
> why SiLabs would have such an attitude… but who knows
>
> >It took me many months troubleshooting only to find that the 2 free
> samples from SiLabs and one spare donated by GI1CET were all DOA.
>
> Hi Sid. I remember you message mentioning this possibility… was it
> 1 or 2 years ago ?. When you say “dead”, was it really dead -no
> heartbeat at all :-) – or was it oscillating without responding
> to any I2C injunction ?
>
> Dave got some of these samples too (in fact, I ask for my Si570
> after his announcement on this mailing list). Where they all full
> functional ?
>
> Dave, you asked :
>
> >What are you using to control the board?
>
> Right now, an STM32SDR, but I have the same behavior with other
> control boards.
>
> * Are the connections to H1. Pin 1 is the Vdd from the
> controller and pin 2 is the ground from the controller(NOT the
> same as the ground on the board - they are isolated).
>
> Yes Dave. I burned an ADUM 2 years ago when I forgot this cabling
> :- / … no error this side of the circuit. My Arduino-based I2C
> Scanner wouldn’t show any dialog with the Si570 if H1 if I messed
> with H1
>
> * Are R61 and R62 1K. You could try increasing them.
>
> They are. I tried to increase to 3.3 k without any change
>
> * Check the bypass capacitors(C45 and C46).
>
> Checked and changed all decoupling caps… no reactions, Si570 still
> working on 10MHz. Noise on the 3.3 rail is really low
>
> I’ll change the Si570 with a lvds next month
>
> Thanks to all of you for your help and support.

>
> So far, I’m the happy owner of 4 dead Si570 AAA grade. I’m pretty
> sure it’s a Guinness record
>
> 73’
>
> Marc f6itu
>
>
>
>
>
>

2341. Re: [UHFSDR] Si570 cannot change frequency

Yahoo group: UHFSDR
Date: 2017-05-07 00:52:31 UTC
From: Sid Boyce
Topic: 2329 Message: 2341

Hi Marc,
Absolutely no output from the 3 free AAA samples.

The fourth from George Boudreau which I think was a purchased item
immediately worked.
73 ... Sid.

On 06/05/17 09:42, Marc OLANIE Marc.olanie@... [UHFSDR] wrote:
>
> Hi
>
> No more tests today… I’m stuck and don’t have other explanations
> than a series of dead Si570.
>
> *>*I believe that SiLabs offers the Si570 with a fixed output
> frequency. Could your samples be some of these?
>
> Hi Milt. Where did you got this info ? It’s the first time I heard
> about that, but it could confirm my diagnostic. I really don’t see
> why SiLabs would have such an attitude… but who knows
>
> >It took me many months troubleshooting only to find that the 2 free samples from
> SiLabs and one spare donated by GI1CET were all DOA.
>
> Hi Sid. I remember you message mentioning this possibility… was it 1
> or 2 years ago ?. When you say “dead”, was it really dead -no
> heartbeat at all :-) – or was it oscillating without responding to
> any I2C injunction ?
>
> Dave got some of these samples too (in fact, I ask for my Si570 after
> his announcement on this mailing list). Where they all full functional ?
>
> Dave, you asked :
>
> >What are you using to control the board?
>
> Right now, an STM32SDR, but I have the same behavior with other
> control boards.
>
> * Are the connections to H1. Pin 1 is the Vdd from the controller
> and pin 2 is the ground from the controller(NOT the same as the
> ground on the board - they are isolated).
>
> Yes Dave. I burned an ADUM 2 years ago when I forgot this cabling :- /
> … no error this side of the circuit. My Arduino-based I2C Scanner

> wouldn’t show any dialog with the Si570 if H1 if I messed with H1
>
> * Are R61 and R62 1K. You could try increasing them.
>
> They are. I tried to increase to 3.3 k without any change
>
> * Check the bypass capacitors(C45 and C46).
>
> Checked and changed all decoupling caps… no reactions, Si570 still
> working on 10MHz. Noise on the 3.3 rail is really low
>
> I’ll change the Si570 with a lvds next month
>
> Thanks to all of you for your help and support.
>
> So far, I’m the happy owner of 4 dead Si570 AAA grade. I’m pretty
> sure it’s a Guinness record
>
> 73’
>
> Marc f6itu
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

2342. RE: [UHFSDR] Si570 cannot change frequency

Yahoo group: UHFSDR
Date: 2017-05-07 07:08:30 UTC
From: Marc OLANIE
Topic: 2329 Message: 2342

Hi Dave
Config register should be 7-12 as my temp. stability is 61.5ppm (AAA and not ACA).

>Absolutely no output from the 3 free AAA samples.
>The fourth from George Boudreau which I think was a purchased item immediately worked.

Thanks Sid. In other words, my problem is different from yours as my Si570 gives a clear I2C answer when requesting it's address, and the chip oscillates at the starting frequency. I never had troubles with oscillators sold by George or The SilverFox

Back to my Arduino workbench...
73'

Marc f6itu

2343. RE: [UHFSDR] Si570 cannot change frequency

Yahoo group: UHFSDR
Date: 2017-05-07 23:36:11 UTC
From: ed.murphy31@...
Topic: 2329 Message: 2343

Hello,
Run CFGSR , go to Calibrate Tab, Insert your start up frequency, Select Reset button. Go back to your UHFSDR. Switch on. Try now.

Si Labs would never send out faulty parts to anyone, I am sure.
Regards Ed GM3SBC

2344. RE: [UHFSDR] Si570 cannot change frequency

Yahoo group: UHFSDR
Date: 2017-05-08 09:27:43 UTC
From: Marc OLANIE
Topic: 2329 Message: 2344

Hi Ed
Computer=> CFGSDR=>SDR-Widget=>UHFSDR
Bingo !

It works at least from 3 MHz to 440 MHz (didn't check 1200/1400 segment, but it should do it's job)
Returning to former config and the Si570 won't go away from it's factory startup frequency

The culprit is the STM32-SDR, more exactly the mix of a LVPECL and STM32-SDR, as Cmos version of the component runs flawlessly. I've been confused by this coincidence.
Btw, I used the same MCU/UHFSDR cable in both cases

SiLabs would never send several parts with manufacturing defaults, I admit. But I could have destroyed the chip myself with a misconfiguration or any other Pebcac interference

Thank you for this bright idea. CFGSDR was the key

Marc f6itu

-----Message d'origine-----
De : UHFSDR@yahoogroups.com [mailto:UHFSDR@yahoogroups.com]
Envoyé : lundi 8 mai 2017 01:36
À : UHFSDR@yahoogroups.com
Objet : RE: [UHFSDR] Si570 cannot change frequency

Hello,
Run CFGSR , go to Calibrate Tab, Insert your start up frequency, Select Reset button. Go back to your UHFSDR. Switch on. Try now.

Si Labs would never send out faulty parts to anyone, I am sure.
Regards Ed GM3SBC

Posted by: ed.murphy31@yahoo.com

Yahoo Groups Links

2345. SiLabs

Yahoo group: UHFSDR
Date: 2017-09-14 17:00:50 UTC
From: wr3ichgaxgujzxc4xrtrdpsyfntna4dk62d2hiuq@...
Topic: 2345 Message: 2345

Hello all, (who are listening)

My order of samples of 570ABA000112DG has shipped. Order date Aug 09, shipped today Sep 14, 2017

73
Larry
KB3CUF

2346. Looking for si570

Yahoo group: UHFSDR
Date: 2017-11-04 05:40:12 UTC
From: Patriot121@...
Topic: 2346 Message: 2346

Anybody know what part number to enter into the Silicon Labs website for the class A lvds?

2347. Re: [UHFSDR] Looking for si570

Yahoo group: UHFSDR
Date: 2017-11-04 06:49:39 UTC
From: Dave
Topic: 2346 Message: 2347

The Silabs website has drop down menus. Select the desired option in each menu. If you are getting the Si570 for the UHFSDR, the circuit resisters are set for the LVPECL output option. n LVDS would require several resisters to be changed ads noted on the schematic. Part number 57 0AAA0001528DG will give you a class A(up to 1.4 GHz) LVPECL interface with a startup freq of 19.984 MHz.

Dave - WB6DHW
<http://wb6dhw.com>

On 11/3/2017 10:40 PM, Patriot121@... [UHFSDR] wrote:
>
> Anybody know what part number to enter into the Silicon Labs website
> for the class A lvds?
>
>

2348. Re: [UHFSDR] Looking for si570

Yahoo group: UHFSDR
Date: 2017-11-04 10:38:52 UTC
From: MIKE DURKIN
Topic: 2346 Message: 2348

Im fairly sure i used a LVDS on mine.
Id like to put it back to the way it was .... 160m through 70cm

The parts ## i come up with still show backordered from the last time i tried to get free samples.

Get Outlook for Android<https://aka.ms/ghei36>

From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of Dave dave@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Friday, November 3, 2017 11:49:39 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Looking for si570

The Silabs website has drop down menus. Select the desired option in each menu. If you are getting the Si570 for the UHFSDR, the circuit resisters are set for the LVPECL output option. n LVDS would require several resisters to be changed ads noted on the schematic. Part number 57 0AAA0001528DG will give you a class A(up to 1.4 GHz) LVPECL interface with a startup freq of 19.984 MHz.

Dave - WB6DHW
<http://wb6dhw.com><http://wb6dhw.com>

On 11/3/2017 10:40 PM, Patriot121@...<mailto:Patriot121@...> [UHFSDR] wrote:

Anybody know what part number to enter into the Silicon Labs website for the class A lvds?

2349. 9912 board

Yahoo group: UHFSDR
Date: 2017-11-16 23:06:04 UTC
From: Dave
Topic: 2349 Message: 2349

Several years ago I designed and sold an AD9912 board. But, it moved slow and being 4 layer was expensive. I recently found a board house that I can get 10 at a time for a reasonable price. If a couple of people are interested, I will order a batch. The last batch of 100 I ordered lasted about 5 years!
<http://wb6dhw.com/AD9912_DDS.html>

Dave - WB6DHW
<http://wb6dhw.com>

2350. Re: [UHFSDR] 9912 board

Yahoo group: UHFSDR
Date: 2017-11-17 15:46:24 UTC
From: Jim Sanford
Topic: 2349 Message: 2350

Interested in principle, but details on what the board will do?

Thanks & 73,

jim

wb4gcs@...

On 11/16/2017 6:06 PM, Dave dave@... [UHFSDR] wrote:
>
> Several years ago I designed and sold an AD9912 board. But, it moved
> slow and being 4 layer was expensive. I recently found a board house
> that I can get 10 at a time for a reasonable price. If a couple of
> people are interested, I will order a batch. The last batch of 100 I
> ordered lasted about 5 years!
> <http://wb6dhw.com/AD9912_DDS.html>
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
>

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https://www.avast.com/antivirus

2351. Re: [UHFSDR] r1a board

Yahoo group: UHFSDR
Date: 2017-11-17 16:40:20 UTC
From: Gilbert Cross
Topic: 2349 Message: 2351

I have an assembled r1a unit. It is in very nice condition. Did not use as could only get about 20 mw out and so went with Hard Rock.If this is of any use to someone, please make me an offer_____ Take care Gil K8EAG

2352. Re: [UHFSDR] 9912 board

Yahoo group: UHFSDR
Date: 2017-11-17 20:51:08 UTC
From: Dave
Topic: 2349 Message: 2352

The AD9912 board contains an AD9912 14 Bit, 1 GHz DDS plus the clock circuit and a PIC controller chip. The board is designed to be controlled via USB from a PC. But, one customer did write some firmware for the PIC and a circuit to use the board as a stand alone generator. When I designed the board, the AD9912 was new and Analog Devices was handing them out for free. They now are around $60 each.

Dave - WB6DHW
<http://wb6dhw.com>

On 11/17/2017 7:46 AM, Jim Sanford wb4gcs@... [UHFSDR] wrote:
>
> Interested in principle, but details on what the board will do?
>
> Thanks & 73,
>
> jim
>
> wb4gcs@...
>
>
>
>
> On 11/16/2017 6:06 PM, Dave dave@... [UHFSDR] wrote:
>>
>> Several years ago I designed and sold an AD9912 board. But, it moved
>> slow and being 4 layer was expensive. I recently found a board house
>> that I can get 10 at a time for a reasonable price. If a couple of
>> people are interested, I will order a batch. The last batch of 100 I
>> ordered lasted about 5 years!
>> <http://wb6dhw.com/AD9912_DDS.html>
>>
>> Dave - WB6DHW
>> <http://wb6dhw.com>
>>
>
>
> <https://www.avast.com/sig-email?utm_medium=email&utm_source=link&utm_campaign=sig-email
&utm_content=emailclient&utm_term=icon>
> Virus-free. www.avast.com
> <https://www.avast.com/sig-email?utm_medium=email&utm_source=link&utm_campaign=sig-email
&utm_content=emailclient&utm_term=link>
>
>
> <#DAB4FAD8-2DD7-40BB-A1B8-4E2AA1F9FDF2>

>

2353. Re: [UHFSDR] 9912 board

Yahoo group: UHFSDR
Date: 2017-11-17 22:56:45 UTC
From: Jim Sanford
Topic: 2349 Message: 2353

Dave:

Thanks. If the AD9912 is something I can solder (NOT BGA!), I'll commit to 4 boards. Sounds like a /very /nice device.

Thanks & 73,

Jim

wb4gcs@...

On 11/17/2017 3:51 PM, Dave dave@... [UHFSDR] wrote:
>
> The AD9912 board contains an AD9912 14 Bit, 1 GHz DDS plus the clock
> circuit and a PIC controller chip. The board is designed to be
> controlled via USB from a PC. But, one customer did write some
> firmware for the PIC and a circuit to use the board as a stand alone
> generator. When I designed the board, the AD9912 was new and Analog
> Devices was handing them out for free. They now are around $60 each.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 11/17/2017 7:46 AM, Jim Sanford wb4gcs@... [UHFSDR] wrote:
>>
>> Interested in principle, but details on what the board will do?
>>
>> Thanks & 73,
>>
>> jim
>>
>> wb4gcs@...
>>
>>
>>
>>
>> On 11/16/2017 6:06 PM, Dave dave@... [UHFSDR] wrote:
>>>
>>> Several years ago I designed and sold an AD9912 board. But, it moved
>>> slow and being 4 layer was expensive. I recently found a board house
>>> that I can get 10 at a time for a reasonable price. If a couple of
>>> people are interested, I will order a batch. The last batch of 100 I
>>> ordered lasted about 5 years!
>>> <http://wb6dhw.com/AD9912_DDS.html>
>>>
>>> Dave - WB6DHW

>>> <http://wb6dhw.com>
>>>
>>
>>
>> <https://www.avast.com/sig-email?utm_medium=email&utm_source=link&utm_campaign=sig-email&utm_content=emailclient&utm_term=icon>
>> Virus-free. www.avast.com
>> <https://www.avast.com/sig-email?utm_medium=email&utm_source=link&utm_campaign=sig-email&utm_content=emailclient&utm_term=link>
>>
>>
>> <#DAB4FAD8-2DD7-40BB-A1B8-4E2AA1F9FDF2>
>
>
>

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https://www.avast.com/antivirus

2354. Re: [UHFSDR] 9912 board

Yahoo group: UHFSDR
Date: 2017-11-18 00:00:16 UTC
From: Dave
Topic: 2349 Message: 2354

Jim:
  It is not BGA. The AD9912 is a 64 lead Lead Frame Chip Scale Package. The leads wrap around the bottom edge and are .5mm center to center. I was able to solder it. Not easy, but doable. I solder opposite ends down and made sure all pins were aligned. Then run a bead of solder down the side. Then suck the solder off with solder wick.

Dave - WB6DHW
<http://wb6dhw.com>

On 11/17/2017 2:56 PM, Jim Sanford wb4gcs@... [UHFSDR] wrote:
>
> Dave:
>
> Thanks. If the AD9912 is something I can solder (NOT BGA!), I'll
> commit to 4 boards. Sounds like a /very /nice device.
>
> Thanks & 73,
>
> Jim
>
> wb4gcs@...
>
>
>
> On 11/17/2017 3:51 PM, Dave dave@... [UHFSDR] wrote:
>>
>> The AD9912 board contains an AD9912 14 Bit, 1 GHz DDS plus the clock
>> circuit and a PIC controller chip. The board is designed to be
>> controlled via USB from a PC. But, one customer did write some
>> firmware for the PIC and a circuit to use the board as a stand alone
>> generator. When I designed the board, the AD9912 was new and Analog
>> Devices was handing them out for free. They now are around $60 each.
>>
>> Dave - WB6DHW
>> <http://wb6dhw.com>
>>
>> On 11/17/2017 7:46 AM, Jim Sanford wb4gcs@... [UHFSDR] wrote:
>>>
>>> Interested in principle, but details on what the board will do?
>>>
>>> Thanks & 73,
>>>
>>> jim
>>>

>>> wb4gcs@...
>>>
>>>
>>>
>>>
>>> On 11/16/2017 6:06 PM, Dave dave@... [UHFSDR] wrote:
>>>>
>>>> Several years ago I designed and sold an AD9912 board. But, it
>>>> moved
>>>> slow and being 4 layer was expensive. I recently found a board house
>>>> that I can get 10 at a time for a reasonable price. If a couple of
>>>> people are interested, I will order a batch. The last batch of 100 I
>>>> ordered lasted about 5 years!
>>>> <http://wb6dhw.com/AD9912_DDS.html>
>>>>
>>>> Dave - WB6DHW
>>>> <http://wb6dhw.com>
>>>>
>>>
>>>
>>> <https://www.avast.com/sig-email?utm_medium=email&utm_source=link&utm_campaign=sig-ema
il&utm_content=emailclient&utm_term=icon>
>>> Virus-free. www.avast.com
>>> <https://www.avast.com/sig-email?utm_medium=email&utm_source=link&utm_campaign=sig-ema
il&utm_content=emailclient&utm_term=link>
>>>
>>>
>>> <#DAB4FAD8-2DD7-40BB-A1B8-4E2AA1F9FDF2>
>>
>>
>
>

2355. Re: 9912 board

Yahoo group: UHFSDR
Date: 2017-11-18 00:51:57 UTC
From: hank@...
Topic: 2349 Message: 2355

Dave,

I would commit to buy 2 boards.

Hank - wz3hmt

2356. Re: [UHFSDR] 9912 board

Yahoo group: UHFSDR
Date: 2017-11-18 01:25:29 UTC
From: Jim Sanford
Topic: 2349 Message: 2356

Count me IN.

Jim

On 11/17/2017 7:00 PM, Dave dave@... [UHFSDR] wrote:
>
> Jim:
> It is not BGA. The AD9912 is a 64 lead Lead Frame Chip Scale
> Package. The leads wrap around the bottom edge and are .5mm center to
> center. I was able to solder it. Not easy, but doable. I solder
> opposite ends down and made sure all pins were aligned. Then run a
> bead of solder down the side. Then suck the solder off with solder wick.
>
> Dave - WB6DHW
> <http://wb6dhw.com>
>
> On 11/17/2017 2:56 PM, Jim Sanford wb4gcs@... [UHFSDR] wrote:
>>
>> Dave:
>>
>> Thanks. If the AD9912 is something I can solder (NOT BGA!), I'll
>> commit to 4 boards. Sounds like a /very /nice device.
>>
>> Thanks & 73,
>>
>> Jim
>>
>> wb4gcs@...
>>
>>
>>
>> On 11/17/2017 3:51 PM, Dave dave@... [UHFSDR] wrote:
>>>
>>> The AD9912 board contains an AD9912 14 Bit, 1 GHz DDS plus the
>>> clock circuit and a PIC controller chip. The board is designed to
>>> be controlled via USB from a PC. But, one customer did write some
>>> firmware for the PIC and a circuit to use the board as a stand alone
>>> generator. When I designed the board, the AD9912 was new and Analog
>>> Devices was handing them out for free. They now are around $60 each.
>>>
>>> Dave - WB6DHW
>>> <http://wb6dhw.com>
>>>
>>> On 11/17/2017 7:46 AM, Jim Sanford wb4gcs@... [UHFSDR] wrote:
>>>>

>>>> Interested in principle, but details on what the board will do?
>>>>
>>>> Thanks & 73,
>>>>
>>>> jim
>>>>
>>>> wb4gcs@...
>>>>
>>>>
>>>>
>>>>
>>>> On 11/16/2017 6:06 PM, Dave dave@... [UHFSDR] wrote:
>>>>>
>>>>> Several years ago I designed and sold an AD9912 board. But, it
>>>>> moved
>>>>> slow and being 4 layer was expensive. I recently found a board house
>>>>> that I can get 10 at a time for a reasonable price. If a couple of
>>>>> people are interested, I will order a batch. The last batch of 100 I
>>>>> ordered lasted about 5 years!
>>>>> <http://wb6dhw.com/AD9912_DDS.html>
>>>>>
>>>>> Dave - WB6DHW
>>>>> <http://wb6dhw.com>
>>>>>
>>>>
>>>>
>>>> <https://www.avast.com/sig-email?utm_medium=email&utm_source=link&utm_campaign=sig-em
ail&utm_content=emailclient&utm_term=icon>
>>>> Virus-free. www.avast.com
>>>> <https://www.avast.com/sig-email?utm_medium=email&utm_source=link&utm_campaign=sig-em
ail&utm_content=emailclient&utm_term=link>
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>>>> <#DAB4FAD8-2DD7-40BB-A1B8-4E2AA1F9FDF2>
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https://www.avast.com/antivirus

2357. Re: [UHFSDR] 9912 board

Yahoo group: UHFSDR
Date: 2017-11-18 06:45:26 UTC
From: Dave
Topic: 2349 Message: 2357

I just ordered a new batch of 9912 boards. Will be about 2 weeks to
receive them. I will be updating my for sale page shortly.

Dave - WB6DHW
<http://wb6dhw.com>

On 11/17/2017 5:25 PM, Jim Sanford wb4gcs@... [UHFSDR] wrote:
>
> Count me IN.
>
> Jim
>
>
>
> On 11/17/2017 7:00 PM, Dave dave@... [UHFSDR] wrote:
>>
>> Jim:
>> It is not BGA. The AD9912 is a 64 lead Lead Frame Chip Scale
>> Package. The leads wrap around the bottom edge and are .5mm center
>> to center. I was able to solder it. Not easy, but doable. I solder
>> opposite ends down and made sure all pins were aligned. Then run a
>> bead of solder down the side. Then suck the solder off with solder
>> wick.
>>
>> Dave - WB6DHW
>> <http://wb6dhw.com>
>>
>> On 11/17/2017 2:56 PM, Jim Sanford wb4gcs@... [UHFSDR] wrote:
>>>
>>> Dave:
>>>
>>> Thanks. If the AD9912 is something I can solder (NOT BGA!), I'll
>>> commit to 4 boards. Sounds like a /very /nice device.
>>>
>>> Thanks & 73,
>>>
>>> Jim
>>>
>>> wb4gcs@...
>>>
>>>
>>>
>>> On 11/17/2017 3:51 PM, Dave dave@... [UHFSDR] wrote:
>>>>
>>>> The AD9912 board contains an AD9912 14 Bit, 1 GHz DDS plus the

>>>> clock circuit and a PIC controller chip. The board is designed to
>>>> be controlled via USB from a PC. But, one customer did write some
>>>> firmware for the PIC and a circuit to use the board as a stand
>>>> alone generator. When I designed the board, the AD9912 was new and
>>>> Analog Devices was handing them out for free. They now are around
>>>> $60 each.
>>>>
>>>> Dave - WB6DHW
>>>> <http://wb6dhw.com>
>>>>
>>>> On 11/17/2017 7:46 AM, Jim Sanford wb4gcs@... [UHFSDR] wrote:
>>>>>
>>>>> Interested in principle, but details on what the board will do?
>>>>>
>>>>> Thanks & 73,
>>>>>
>>>>> jim
>>>>>
>>>>> wb4gcs@...
>>>>>
>>>>>
>>>>>
>>>>>
>>>>> On 11/16/2017 6:06 PM, Dave dave@... [UHFSDR] wrote:
>>>>>>
>>>>>>   Several years ago I designed and sold an AD9912 board. But, it
>>>>>> moved
>>>>>> slow and being 4 layer was expensive. I recently found a board house
>>>>>> that I can get 10 at a time for a reasonable price. If a couple of
>>>>>> people are interested, I will order a batch. The last batch of
>>>>>> 100 I
>>>>>> ordered lasted about 5 years!
>>>>>> <http://wb6dhw.com/AD9912_DDS.html>
>>>>>>
>>>>>> Dave - WB6DHW
>>>>>> <http://wb6dhw.com>
>>>>>>
>>>>>
>>>>>
>>>>> <https://www.avast.com/sig-email?utm_medium=email&utm_source=link&utm_campaign=sig-e
mail&utm_content=emailclient&utm_term=icon>
>>>>> Virus-free. www.avast.com
>>>>> <https://www.avast.com/sig-email?utm_medium=email&utm_source=link&utm_campaign=sig-e
mail&utm_content=emailclient&utm_term=link>
>>>>>
>>>>>
>>>>> <#DAB4FAD8-2DD7-40BB-A1B8-4E2AA1F9FDF2>
>>>>
>>>>
>>>

>>
>
>

2358. Re: [UHFSDR] 9912 board

Yahoo group: UHFSDR
Date: 2017-11-18 12:29:56 UTC
From: jimamos@...
Topic: 2349 Message: 2358

I'm interested in getting a board as well. But, I'm curious about your success with soldering the AD9912. The datasheet shows a LFCSP_VQ 64 pin package with a E-pad that provides analog ground. Usually connection of these e-pads are also necessary for problem thermal dissipation as well as providing the analog ground.

Does the PCB provide the E-Pad correct connection so that could use paste and a toaster oven or hot plate for soldering the epad?

73's Jim N8CAH

2359. Re: [UHFSDR] 9912 board

Yahoo group: UHFSDR
Date: 2017-11-18 20:51:44 UTC
From: Dave
Topic: 2349 Message: 2359

Jim:
  The board has the E-Pad. It has 4 vias along the outside and a plated thru hole in the middle that you cn solder vrom the back with a very fine soldering iron tip. The solder paste and oven works also. Just don't put too much on the E-Pad.

Dave - WB6DHW
<http://wb6dhw.com>

On 11/18/2017 4:29 AM, jimamos@... [UHFSDR] wrote:
>
> I'm interested in getting a board as well. But, I'm curious about
> your success with soldering the AD9912. The datasheet shows a LFCSP_VQ
> 64 pin package with a E-pad that provides analog ground. Usually
> connection of these e-pads are also necessary for problem thermal
> dissipation as well as providing the analog ground.
>
>
> Does the PCB provide the E-Pad correct connection so that could use
> paste and a toaster oven or hot plate for soldering the epad?
>
> 73's Jim N8CAH
>
>

2360. Re: [UHFSDR] 9912 board

Yahoo group: UHFSDR
Date: 2017-11-20 12:14:27 UTC
From: jimamos@...
Topic: 2349 Message: 2360

Hi Dave,

That sounds great, I've never soldered an E-pad directly that way, but I have seen that done quite a bit for lower volume boards.

On your board, did you take any spectral plots of the output waveform? Were there any spurs, and what was the close in noise performance?

Please add me to your list if you haven't already done so!

73's Jim N8CAH

---In UHFSDR@yahoogroups.com, <dave@...> wrote :

Jim:
The board has the E-Pad. It has 4 vias along the outside and a plated thru hole in the middle that you cn solder vrom the back with a very fine soldering iron tip. The solder paste and oven works also. Just don't put too much on the E-Pad.

Dave - WB6DHW
<http://wb6dhw.com> http://wb6dhw.com

On 11/18/2017 4:29 AM, jimamos@... mailto:jimamos@... [UHFSDR] wrote:

I'm interested in getting a board as well. But, I'm curious about your success with soldering the AD9912. The datasheet shows a LFCSP_VQ 64 pin package with a E-pad that provides analog ground. Usually connection of these e-pads are also necessary for problem thermal dissipation as well as providing the analog ground.

Does the PCB provide the E-Pad correct connection so that could use paste and a toaster oven or hot plate for soldering the epad?

73's Jim N8CAH

2361. Re: 9912 board

Yahoo group: UHFSDR
Date: 2017-11-20 16:26:33 UTC
From: wr3ichgaxgujzxc4xrtrdpsyfntna4dk62d2hiuq@...
Topic: 2349 Message: 2361

I'm in for one!

Larry
KB3CUF

2362. Re: [UHFSDR] 9912 board

Yahoo group: UHFSDR
Date: 2017-11-20 20:51:41 UTC
From: Dave
Topic: 2349 Message: 2362

Jim:
  I did not have a spectrum analyzer to look at the spurs. Check the
dds_controller group at Yahoo.

Dave - WB6DHW

On 11/20/2017 4:14 AM, jimamos@... [UHFSDR] wrote:
>
> Hi Dave,
>
>
> That sounds great, I've never soldered an E-pad directly that way, but
> I have seen that done quite a bit for lower volume boards.
>
> On your board, did you take any spectral plots of the output
> waveform? Were there any spurs, and what was the close in noise
> performance?
>
> Please add me to your list if you haven't already done so!
>
> 73's Jim N8CAH
>
>
>
> ---In UHFSDR@yahoogroups.com, <dave@...> wrote :
>
> Jim:
> The board has the E-Pad. It has 4 vias along the outside and a
> plated thru hole in the middle that you cn solder vrom the back with a
> very fine soldering iron tip. The solder paste and oven works also.
> Just don't put too much on the E-Pad.
>
> Dave - WB6DHW
> <http://wb6dhw.com> <http://wb6dhw.com>
>
> On 11/18/2017 4:29 AM, jimamos@... <mailto:jimamos@...> [UHFSDR]
> wrote:
>
>> I'm interested in getting a board as well. But, I'm curious about
>> your success with soldering the AD9912. The datasheet shows
>> a LFCSP_VQ 64 pin package with a E-pad that provides analog ground.
>> Usually connection of these e-pads are also necessary for problem
>> thermal dissipation as well as providing the analog ground.
>>
>>

>> Does the PCB provide the E-Pad correct connection so that could use
>> paste and a toaster oven or hot plate for soldering the epad?
>>
>> 73's Jim N8CAH
>>
>
>

2363. Pi SDR Interfaces, New Site and Campaign

Yahoo group: UHFSDR
Date: 2017-11-27 09:52:50 UTC
From: sv1eia@...
Topic: 2363 Message: 2363

Hi All,

For the Pi SDR new interfaces, a dedicated site has been established. Please let me announce to you the new Pi SDR site

-> https://pi-sdr.com https://pi-sdr.com

In here you can find information for Pi SDR IQ and IQ Plus.

Great news for Flex SDR1000 users, as now they can have a new solution tailor-made for SDR1000 to re-vitalize their rig and work in modern PC and new Windows versions. That solution comes with a dedicated included LPT control interface. More detailed information is in the https://pi-sdr.com https://pi-sdr.com pages.

For those who have homebrew Ensemble/Softrock type of rigs, a cost benfit solution as the Pi SDR IQ is there for them or even the Pi SDR IQ Plus with enhanced performance.

The new campaign is available here

-> https://igg.me/at/pisdriq https://igg.me/at/pisdriq

Anyone interested can contact me for details.

Best regards & 73,
Christos SV1EIA

2364. Re: [UHFSDR] Pi SDR Interfaces, New Site and Campaign

Yahoo group: UHFSDR
Date: 2017-11-27 14:43:53 UTC
From: Rob Frohne
Topic: 2363 Message: 2364

Hi Christos,

Is this open source?

73,

Rob

KL7NA

--
Rob Frohne, Ph.D. P.E.
E. F. Cross School of Engineering
Walla Walla University
100 SW 4th Street
College Place, WA 99362
(509) 527-2075

2365. Re: Pi SDR Interfaces, New Site and Campaign

Yahoo group: UHFSDR
Date: 2017-11-27 16:22:31 UTC
From: sv1eia@...
Topic: 2363 Message: 2365

Hi Rob,

The application software, is planned to be released in github soon after campaign reaches its goal.

73 de
Christos SV1EIA

2366. Re: [UHFSDR] Re: Pi SDR Interfaces, New Site and Campaign

Yahoo group: UHFSDR
Date: 2017-11-27 18:38:18 UTC
From: Rob Frohne
Topic: 2363 Message: 2366

Hi Christos,

That is nice. Does that mean not the firmware?

Thanks,

Rob

On 11/27/2017 08:22 AM, sv1eia@... [UHFSDR] wrote:
>
> Hi Rob,
>
> The application software, is planned to be released in github soon
> after campaign reaches its goal.
>
> 73 de
> Christos SV1EIA
>
>

--
Rob Frohne, Ph.D. P.E.
E. F. Cross School of Engineering
Walla Walla University
100 SW 4th Street
College Place, WA 99362
(509) 527-2075

2367. Re: [UHFSDR] Re: Pi SDR Interfaces, New Site and Campaign

Yahoo group: UHFSDR
Date: 2017-11-27 19:56:52 UTC
From: MIKE DURKIN
Topic: 2363 Message: 2367

Iv missed something here ....

Get Outlook for Android<https://aka.ms/ghei36>

_____
From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of Rob Frohne rob.frohne@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Monday, November 27, 2017 10:38:18 AM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: Pi SDR Interfaces, New Site and Campaign

Hi Christos,

That is nice. Does that mean not the firmware?

Thanks,

Rob

On 11/27/2017 08:22 AM, sv1eia@...<mailto:sv1eia@yahoo.com> [UHFSDR] wrote:

Hi Rob,

The application software, is planned to be released in github soon after campaign reaches its goal.

73 de
Christos SV1EIA

--
Rob Frohne, Ph.D. P.E.
E. F. Cross School of Engineering
Walla Walla University
100 SW 4th Street
College Place, WA 99362
(509) 527-2075

2368. Re: Pi SDR Interfaces, New Site and Campaign

Yahoo group: UHFSDR
Date: 2017-11-27 21:12:05 UTC
From: sv1eia@...
Topic: 2363 Message: 2368

Rob,

In the longrun, the plan is to have all the campaign's software components gradually available in a repository, whenever its time to do so.

73
Christos SV1EIA

2369. Re: [UHFSDR] Re: Pi SDR Interfaces, New Site and Campaign

Yahoo group: UHFSDR
Date: 2017-11-28 05:10:21 UTC
From: Rob Frohne
Topic: 2363 Message: 2369

Sorry Mike,

I should have included Christos' announcement for Pi SDR.? He has two interesting daughterboards for processing the I/Q of SDRs like the Softrock or SDR-1000.? I was impressed that the A/D must work down to DC, as I saw no spike for DC and the image rejection looked really good on the photos on his site.? I wanted to investigate that, but didn't see any schematics or software. Therefore, I asked Christos about that.

73,

Rob

KL7NA

On 11/27/2017 11:56 AM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>
> Iv missed something here ....
>
> Get Outlook for Android <https://aka.ms/ghei36>
>
> ---
> *From:* UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of
> Rob Frohne rob.frohne@... [UHFSDR] <UHFSDR@yahoogroups.com>
> *Sent:* Monday, November 27, 2017 10:38:18 AM
> *To:* UHFSDR@yahoogroups.com
> *Subject:* Re: [UHFSDR] Re: Pi SDR Interfaces, New Site and Campaign
>
> Hi Christos,
>
> That is nice.? Does that mean not the firmware?
>
> Thanks,
>
> Rob
>
>
> On 11/27/2017 08:22 AM, sv1eia@... [UHFSDR] wrote:
>>
>> Hi Rob,
>>
>> The application software, is planned to be released in github soon
>> after campaign reaches its goal.
>>
>> 73 de
>> Christos SV1EIA

```
>>
>
> --
> Rob Frohne, Ph.D. P.E.
> E. F. Cross School of Engineering
> Walla Walla University
> 100 SW 4th Street
> College Place, WA 99362
> (509) 527-2075
>
```

--
Rob Frohne, Ph.D. P.E.
E. F. Cross School of Engineering
Walla Walla University
100 SW 4th Street
College Place, WA 99362
(509) 527-2075

2370. Re: [UHFSDR] Re: Pi SDR Interfaces, New Site and Campaign

Yahoo group: UHFSDR
Date: 2017-11-28 19:49:24 UTC
From: MIKE DURKIN
Topic: 2363 Message: 2370

How much was it .... i have a UHFSDR ....

Get Outlook for Android<https://aka.ms/ghei36>

_____
From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of Rob Frohne rob.frohne@wallawalla.edu [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Monday, November 27, 2017 9:10:21 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Re: Pi SDR Interfaces, New Site and Campaign

Sorry Mike,

I should have included Christos' announcement for Pi SDR. He has two interesting daughterboards for processing the I/Q of SDRs like the Softrock or SDR-1000. I was impressed that the A/D must work down to DC, as I saw no spike for DC and the image rejection looked really good on the photos on his site. I wanted to investigate that, but didn't see any schematics or software. Therefore, I asked Christos about that.

73,

Rob

KL7NA

On 11/27/2017 11:56 AM, MIKE DURKIN Patriot121@...<mailto:Patriot121@...> [UHFSDR] wrote:

Iv missed something here ....

Get Outlook for Android<https://aka.ms/ghei36>

_____
From: UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com> <UHFSDR@yahoogroups.com><mailto:UHFSDR@yahoogroups.com> on behalf of Rob Frohne rob.frohne@...<mailto:rob.frohne@...> [UHFSDR] <UHFSDR@yahoogroups.com><mailto:UHFSDR@yahoogroups.com>
Sent: Monday, November 27, 2017 10:38:18 AM
To: UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>
Subject: Re: [UHFSDR] Re: Pi SDR Interfaces, New Site and Campaign

Hi Christos,

That is nice. Does that mean not the firmware?

Thanks,

Rob

On 11/27/2017 08:22 AM, sv1eia@...<mailto:sv1eia@...> [UHFSDR] wrote:

Hi Rob,

The application software, is planned to be released in github soon after campaign reaches its goal.

73 de
Christos SV1EIA

--
Rob Frohne, Ph.D. P.E.
E. F. Cross School of Engineering
Walla Walla University
100 SW 4th Street
College Place, WA 99362
(509) 527-2075

--
Rob Frohne, Ph.D. P.E.
E. F. Cross School of Engineering
Walla Walla University
100 SW 4th Street
College Place, WA 99362
(509) 527-2075

2371. Re: Pi SDR Interfaces, New Site and Campaign

Yahoo group: UHFSDR
Date: 2017-11-28 21:08:46 UTC
From: sv1eia@...
Topic: 2363 Message: 2371

Hi Mike
Here is the original post if you missed it in email, the links to both the new site with details and the campaign if you are interested.

Hi All,

For the Pi SDR new interfaces, a dedicated site has been established. Please let me announce to you the new Pi SDR site

-> https://pi-sdr.com https://pi-sdr.com

In here you can find information for Pi SDR IQ and IQ Plus.

Great news for Flex SDR1000 users, as now they can have a new solution tailor-made for SDR1000 to re-vitalize their rig and work in modern PC and new Windows versions. That solution comes with a dedicated included LPT control interface. More detailed information is in the https://pi-sdr.com https://pi-sdr.com pages.

For those who have homebrew Ensemble/Softrock type of rigs, a cost benfit solution as the Pi SDR IQ is there for them or even the Pi SDR IQ Plus with enhanced performance.

The new campaign is available here

-> https://igg.me/at/pisdriq https://igg.me/at/pisdriq

Anyone interested can contact me for details.

Best regards & 73,
Christos SV1EIA

2372. Re: [UHFSDR] Re: 9912 board

Yahoo group: UHFSDR
Date: 2017-11-29 08:07:07 UTC
From: Dave
Topic: 2349 Message: 2372

Larry:
  The boards came yesterday. I just updated my for sale page. I think
it works for ordering the AD9912 PCB.

Dave - WB6DHW
<http://wb6dhw.com>
On 11/20/2017 8:26 AM,
wr3ichgaxgujzxc4xrtrdpsyfntna4dk62d2hiuq@... [UHFSDR] wrote:
>
> I'm in for one!
>
>
> Larry
> KB3CUF
>

2373. Re: [UHFSDR] 9912 board

Yahoo group: UHFSDR
Date: 2017-11-29 08:07:51 UTC
From: Dave
Topic: 2349 Message: 2373

Jim:
The boards came yesterday. I just updated my for sale page. I think it
works for ordering the AD9912 PCB.

Dave - WB6DHW
<http://wb6dhw.com>

On 11/20/2017 4:14 AM, jimamos@... [UHFSDR] wrote:
>
> Hi Dave,
>
>
> That sounds great, I've never soldered an E-pad directly that way, but
> I have seen that done quite a bit for lower volume boards.
>
> On your board, did you take any spectral plots of the output
> waveform? Were there any spurs, and what was the close in noise
> performance?
>
> Please add me to your list if you haven't already done so!
>
> 73's Jim N8CAH
>
>
>
> ---In UHFSDR@yahoogroups.com, <dave@...> wrote :
>
> Jim:
> The board has the E-Pad. It has 4 vias along the outside and a
> plated thru hole in the middle that you cn solder vrom the back with a
> very fine soldering iron tip. The solder paste and oven works also.
> Just don't put too much on the E-Pad.
>
> Dave - WB6DHW
> <http://wb6dhw.com> <http://wb6dhw.com>
>
> On 11/18/2017 4:29 AM, jimamos@... <mailto:jimamos@...> [UHFSDR]
> wrote:
>
>> I'm interested in getting a board as well. But, I'm curious about
>> your success with soldering the AD9912. The datasheet shows
>> a LFCSP_VQ 64 pin package with a E-pad that provides analog ground.
>> Usually connection of these e-pads are also necessary for problem
>> thermal dissipation as well as providing the analog ground.
>>

>>
>> Does the PCB provide the E-Pad correct connection so that could use
>> paste and a toaster oven or hot plate for soldering the epad?
>>
>> 73's Jim N8CAH
>>
>
>

2374. Re: [UHFSDR] 9912 board

Yahoo group: UHFSDR
Date: 2017-11-29 08:10:47 UTC
From: Dave
Topic: 2349 Message: 2374

Jim:
The boards came yesterday. I just updated my for sale page. I think it
works for ordering the AD9912 PCB.

Dave - WB6DHW
<http://wb6dhw.com>

On 11/17/2017 5:25 PM, Jim Sanford wb4gcs@... [UHFSDR] wrote:
>
> Count me IN.
>
> Jim
>
>
>
> On 11/17/2017 7:00 PM, Dave dave@... [UHFSDR] wrote:
>>
>> Jim:
>> It is not BGA. The AD9912 is a 64 lead Lead Frame Chip Scale
>> Package. The leads wrap around the bottom edge and are .5mm center
>> to center. I was able to solder it. Not easy, but doable. I solder
>> opposite ends down and made sure all pins were aligned. Then run a
>> bead of solder down the side. Then suck the solder off with solder
>> wick.
>>
>> Dave - WB6DHW
>> <http://wb6dhw.com>
>>
>> On 11/17/2017 2:56 PM, Jim Sanford wb4gcs@... [UHFSDR] wrote:
>>>
>>> Dave:
>>>
>>> Thanks. If the AD9912 is something I can solder (NOT BGA!), I'll
>>> commit to 4 boards. Sounds like a /very /nice device.
>>>
>>> Thanks & 73,
>>>
>>> Jim
>>>
>>> wb4gcs@...
>>>
>>>
>>>
>>> On 11/17/2017 3:51 PM, Dave dave@... [UHFSDR] wrote:
>>>>

>>>> The AD9912 board contains an AD9912 14 Bit, 1 GHz DDS plus the
>>>> clock circuit and a PIC controller chip. The board is designed to
>>>> be controlled via USB from a PC. But, one customer did write some
>>>> firmware for the PIC and a circuit to use the board as a stand
>>>> alone generator. When I designed the board, the AD9912 was new and
>>>> Analog Devices was handing them out for free. They now are around
>>>> $60 each.
>>>>
>>>> Dave - WB6DHW
>>>> <http://wb6dhw.com>
>>>>
>>>> On 11/17/2017 7:46 AM, Jim Sanford wb4gcs@... [UHFSDR] wrote:
>>>>>
>>>>> Interested in principle, but details on what the board will do?
>>>>>
>>>>> Thanks & 73,
>>>>>
>>>>> jim
>>>>>
>>>>> wb4gcs@...
>>>>>
>>>>>
>>>>>
>>>>>
>>>>> On 11/16/2017 6:06 PM, Dave dave@... [UHFSDR] wrote:
>>>>>>>
>>>>>>>   Several years ago I designed and sold an AD9912 board. But, it
>>>>>>> moved
>>>>>>> slow and being 4 layer was expensive. I recently found a board house
>>>>>>> that I can get 10 at a time for a reasonable price. If a couple of
>>>>>>> people are interested, I will order a batch. The last batch of
>>>>>>> 100 I
>>>>>>> ordered lasted about 5 years!
>>>>>>> <http://wb6dhw.com/AD9912_DDS.html>
>>>>>>>
>>>>>>> Dave - WB6DHW
>>>>>>> <http://wb6dhw.com>
>>>>>>>
>>>>>
>>>>>
>>>>> <https://www.avast.com/sig-email?utm_medium=email&utm_source=link&utm_campaign=sig-e
mail&utm_content=emailclient&utm_term=icon>
>>>>> Virus-free. www.avast.com
>>>>> <https://www.avast.com/sig-email?utm_medium=email&utm_source=link&utm_campaign=sig-e
mail&utm_content=emailclient&utm_term=link>
>>>>>
>>>>>
>>>>> <#DAB4FAD8-2DD7-40BB-A1B8-4E2AA1F9FDF2>
>>>>
>>>>

>>>
>>
>
>

2375. Re: [UHFSDR] Re: 9912 board

Yahoo group: UHFSDR
Date: 2017-11-29 08:11:25 UTC
From: Dave
Topic: 2349 Message: 2375

Hank:
The boards came yesterday. I just updated my for sale page. I think it works for ordering the AD9912 PCB.

Dave - WB6DHW
<http://wb6dhw.com>

On 11/17/2017 4:51 PM, hank@... [UHFSDR] wrote:
>
> Dave,
>
> I would commit to buy 2 boards.
>
> Hank - wz3hmt
>
>

2376. Re: [UHFSDR] Re: 9912 board

Yahoo group: UHFSDR
Date: 2017-11-29 13:34:55 UTC
From: wr3ichgaxgujzxc4xrtrdpsyfntna4dk62d2hiuq@...
Topic: 2349 Message: 2376

Good morning.

I do not see the listing on the for sale page.

73
Larry
KB3CUF

2377. Re: [UHFSDR] Re: 9912 board

Yahoo group: UHFSDR
Date: 2017-11-29 14:05:34 UTC
From: wr3ichgaxgujzxc4xrtrdpsyfntna4dk62d2hiuq@...
Topic: 2349 Message: 2377

Patience and a page refresh did the trick :)

Larry

2378. Re: [UHFSDR] 9912 board

Yahoo group: UHFSDR
Date: 2017-11-29 14:22:32 UTC
From: Jim Amos
Topic: 2349 Message: 2378

Order has been placed
Thanks, Jim N8CAH

On Wednesday, November 29, 2017 3:08 AM, "Dave dave@... [UHFSDR]" <UHFSDR@yahoogroups.com> wrote:

Jim:
The boards came yesterday. I just updated my for sale page. I think it works for ordering the AD9912 PCB.

Dave - WB6DHW
<http://wb6dhw.com>

On 11/20/2017 4:14 AM, jimamos@... [UHFSDR] wrote:

Hi Dave,
That sounds great, I've never soldered an E-pad directly that way, but I have seen that done quite a bit for lower volume boards.
On your board, did you take any spectral plots of the output waveform? Were there any spurs, and what was the close in noise performance?
Please add me to your list if you haven't already done so!
73's Jim N8CAH

---In UHFSDR@yahoogroups.com, <dave@...> wrote :

Jim:
The board has the E-Pad. It has 4 vias along the outside and a plated thru hole in the middle that you cn solder vrom the back with a very fine soldering iron tip. The solder paste and oven works also. Just don't put too much on the E-Pad.

Dave - WB6DHW
<http://wb6dhw.com>

On 11/18/2017 4:29 AM, jimamos@... [UHFSDR] wrote:

I'm interested in getting a board as well. But, I'm curious about your success with soldering the AD9912. The datasheet shows a LFCSP_VQ 64 pin package with a E-pad that provides analog ground. Usually connection of these e-pads are also necessary for problem thermal dissipation as well as providing the analog ground.
Does the PCB provide the E-Pad correct connection so that could use paste and a toaster oven or hot plate for soldering the epad?
73's Jim N8CAH

2379. Re: [UHFSDR] Re: 9912 board

Yahoo group: UHFSDR
Date: 2017-11-29 19:58:14 UTC
From: Dave
Topic: 2349 Message: 2379

Larry:
  It is at the top of the page. You may have to refresh your browser
to get the new page rather than a cached version.

Dave - WB6DHW
<http://wb6dhw.com>

On 11/29/2017 5:34 AM,
wr3ichgaxgujzxc4xrtrdpsyfntna4dk62d2hiuq@... [UHFSDR] wrote:
>
> Good morning.
>
>
> I do not see the listing on the for sale page.
>
> 73
> Larry
> KB3CUF
>

2380. Re: Pi SDR Interfaces, New Site and Campaign

Yahoo group: UHFSDR
Date: 2017-12-02 17:04:56 UTC
From: ed.murphy31@...
Topic: 2363 Message: 2380

Hello Rob,

In the meantime, why not ask Christos to release the source code for his version of Flex 2.4.4. many years after the application was made public.

It is interesting that there are very strict rules for the use of software under the GPL licence.

Please check out the licence of the Flex software.

One of the aspects is that whenever the application is made public then the source code must be released at that time as well. Otherwise there is a serious violation of the terms of the licence.

I recently contacted Flex and requested the source code for one of their software versions. The Flex company responded within two working days and issued the source code requested.

The Flex company most definitely kept in compliance of the GPL software license , they, after all, realise that it is not their code, it is code that has been designed and enhanced by the many individuals throughout the world who have contributed over the years.

Certainly I was very grateful of them in releasing the source code so promptly when requested.

They are a very honorable group to do business with.

Rob, why not have a look at a few of the well known SDR Software applications available at this time. Yes , a few of the first that come to mind ! Then check the licence terms then ask yourself has there been violation of the licence by the individuals who are releasing the Software. You may be surprised with the result.

Good luck.

Regards
Ed GM3SBC

---In UHFSDR@yahoogroups.com, <sv1eia@...> wrote :

Rob,

In the longrun, the plan is to have all the campaign's software components gradually available in a repository, whenever its time to do so.

73
Christos SV1EIA

2381. Re: Pi SDR Interfaces, New Site and Campaign

Yahoo group: UHFSDR
Date: 2017-12-02 17:31:23 UTC
From: sv1eia@...
Topic: 2363 Message: 2381

Hi Ed,

PowerSDR-IQ 2.4.4 executable is exactly what Flexradio is releasing, there are no differences.
Everybody interested knows that in there there is only one external .dll program, SDR1KUSB.dll that is additional.

Flexradio never released any portion of that external .dll code themselves whenever they are asked, my guess is that they have not given that to you.

Got no issue on releasing the aforementioned .dll source that I developed and delivered for free to everyone using Softrocks/Ensemble or UHFSDRs.
Although it is not labeled as opensource itself from what I know.

73,
Christos SV1EIA

2382. 9912 BOM

Yahoo group: UHFSDR
Date: 2017-12-04 18:40:19 UTC
From: wr3ichgaxgujzxc4xrtrdpsyfntna4dk62d2hiuq@...
Topic: 2382 Message: 2382

Beautiful boards. (now I have 2!) Has anyone updated the 9912 BOM with current part numbers? DigiKey has a bunch of obsolete numbers.

73
Larry
KB3CUF

2383. UHFSDR transmit control from USB

Yahoo group: UHFSDR
Date: 2017-12-07 14:45:34 UTC
From: wr3ichgaxgujzxc4xrtrdpsyfntna4dk62d2hiuq@...
Topic: 2383 Message: 2383

I have figured out how to reliably key the UHFSDR from USB2I2C (and HDSDR).

It seems that the PTT pin does not reference a good ground- although I had some intermittent success when audio cables were plugged into the PC sound card.

The PTT pin on the ATTiny does not have a reliable ground reference, since the ADM isolation chip separates the USB ground and the radio ground.

My solution was to use a low level optoisolator keying circuit and 5V micro (low power) relay, powered from the USB side (the radio interface header has USB +V and ground on pins 1 and 2).

The 5V relay SPDT contacts control the T/R by P2 pin 1 0V (RX) or +5V (TX). I also use the switched +5V to control a T/R relay on the antenna.

This method retains isolation of the Vcc and grounds but allows T/R control with just the USB connected.

73
Larry
KB3CUF

2384. Re: [UHFSDR] UHFSDR transmit control from USB

Yahoo group: UHFSDR
Date: 2017-12-07 18:20:21 UTC
From: Catalin Cerga
Topic: 2383 Message: 2384

Hi Larry, just few days ago I did the same arrangement with a optocoupler
and it works very well.
Did you try anything with the CW key hookup?
Thank you for sharing!
Best regards,
Catalin

On Dec 7, 2017 09:45, "wr3ichgaxgujzxc4xrtrdpsyfntna4dk62d2hiuq@...
[UHFSDR]" <UHFSDR@yahoogroups.com> wrote:

>
>
> I have figured out how to reliably key the UHFSDR from USB2I2C (and HDSDR).
>
>
> It seems that the PTT pin does not reference a good ground- although I had
> some intermittent success when audio cables were plugged into the PC sound
> card.
>
>
> The PTT pin on the ATTiny does not have a reliable ground reference, since
> the ADM isolation chip separates the USB ground and the radio ground.
>
>
> My solution was to use a low level optoisolator keying circuit and 5V
> micro (low power) relay, powered from the USB side (the radio interface
> header has USB +V and ground on pins 1 and 2).
>
>
> The 5V relay SPDT contacts control the T/R by P2 pin 1 0V (RX) or +5V
> (TX). I also use the switched +5V to control a T/R relay on the antenna.
>
>
> This method retains isolation of the Vcc and grounds but allows T/R
> control with just the USB connected.
>
>
> 73
>
> Larry
>
> KB3CUF
>
>
>

>

2385. Re: UHFSDR transmit control from USB

Yahoo group: UHFSDR
Date: 2017-12-07 20:42:15 UTC
From: wr3ichgaxgujzxc4xrtrdpsyfntna4dk62d2hiuq@...
Topic: 2383 Message: 2385

I have used the CW key hookup in the past with softrocks, HDSDR won't support CW directly- the DLL does not pass back to the program. Rocky used to, have not tried it on the UHFSDR.

I used an old USB keyboard and hooked an external keyer to the return key, used that to send CW with HDSDR, but it falls apart at 15 WPM, USB can't get back fast enough, since keyboards and mice are polled in Windows.

The Peaberry got around this by developing their own CW program- which works perfectly- but only with Peaberry V2 hardware.

So long story short, the return key works for slow CW.

73
Larry
KB3CUF

2386. Re: [UHFSDR] Re: UHFSDR transmit control from USB

Yahoo group: UHFSDR
Date: 2017-12-08 14:11:13 UTC
From: Catalin Cerga
Topic: 2383 Message: 2386

Hi Larry,
Thank you for the detailed info!
Sorry to ask you again, could you tell me how to configure hdsdr to support tx for uhfsdr? I couldn't get it to work for some reason.
Thank you again!
73's
Catalin

On Dec 7, 2017 3:42 PM, "wr3ichgaxgujzxc4xrtrdpsyfntna4dk62d2hiuq@... [UHFSDR]" <UHFSDR@yahoogroups.com> wrote:

>
>
> I have used the CW key hookup in the past with softrocks, HDSDR won't
> support CW directly- the DLL does not pass back to the program. Rocky used
> to, have not tried it on the UHFSDR.
>
> I used an old USB keyboard and hooked an external keyer to the return key,
> used that to send CW with HDSDR, but it falls apart at 15 WPM, USB can't
> get back fast enough, since keyboards and mice are polled in Windows.
>
> The Peaberry got around this by developing their own CW program- which
> works perfectly- but only with Peaberry V2 hardware.
>
> So long story short, the return key works for slow CW.
>
> 73
> Larry
> KB3CUF
>
>

2387. Re: [UHFSDR] Re: UHFSDR transmit control from USB

Yahoo group: UHFSDR
Date: 2017-12-08 18:31:20 UTC
From: wr3ichgaxgujzxc4xrtrdpsyfntna4dk62d2hiuq@...
Topic: 2383 Message: 2387

OK. Open HDSDR and configure for Softrock. open CfgSdr or do it from hdsdr screen (EXTio.dll)

In SI570 tab, find the multiplier and change it from X4 to X2
Disable the ABPF (bandpass)
I used Ensemble RxTX as the radio type.

Save, change the SI570 startup frequency if needed, then save again.

I have found that you need to make one frequency change (up or down, any amount) to get HDSDR to sync with the SI570.

Transmit support is necessary to get HDSDR to work as a Xcvr. That means a 2nd sound card. Dont attempt ASIO, that only works for receive.

This is all from memory but pretty close.

Get the latest CFGSDR and HDSDR and they will work on W7, W10.

73
Larry
KB3CUF

2388. Re: [UHFSDR] Re: UHFSDR transmit control from USB

Yahoo group: UHFSDR
Date: 2017-12-08 20:49:22 UTC
From: Catalin Cerga
Topic: 2383 Message: 2388

Will try this way this weekend,
Thank you for everything!
73's
Catalin

On Dec 8, 2017 1:31 PM, "wr3ichgaxgujzxc4xrtrdpsyfntna4dk62d2hiuq@...
[UHFSDR]" <UHFSDR@yahoogroups.com> wrote:

>
>
> OK. Open HDSDR and configure for Softrock.
> open CfgSdr or do it from hdsdr screen (EXTio.dll)
>
> In SI570 tab, find the multiplier and change it from X4 to X2
> Disable the ABPF (bandpass)
> I used Ensemble RxTX as the radio type.
>
> Save, change the SI570 startup frequency if needed, then save again.
>
> I have found that you need to make one frequency change (up or down, any
> amount) to get HDSDR to sync with the SI570.
>
> Transmit support is necessary to get HDSDR to work as a Xcvr. That means
> a 2nd sound card.
> Dont attempt ASIO, that only works for receive.
>
> This is all from memory but pretty close.
>
> Get the latest CFGSDR and HDSDR and they will work on W7, W10.
>
> 73
> Larry
> KB3CUF
>
>

2389. 8 band pass filter

Yahoo group: UHFSDR
Date: 2017-12-19 01:32:31 UTC
From: MIKE DURKIN
Topic: 2389 Message: 2389

Hey I want to use my 8 bandpass filter that I never actually hooked up I would like to put it into an atlas radio and I would like to since it has its own band switch I'd like to wire it straight to each bandpass section without using the switching IC's.

Is there a diagram showing where each band is at?

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2390. Quisk

Yahoo group: UHFSDR
Date: 2017-12-20 01:21:53 UTC
From: wr3ichgaxgujzxc4xrtrdpsyfntna4dk62d2hiuq@...
Topic: 2390 Message: 2390

I've given up on HDSDR and moved to Quisk. I have it communicating, but the division ratio seems to be wrong- 100 Mhz FM transmit is outputting 200. And getting very confused as to where the division ratio is set. Cfgsdr says its correct at 2.

Anyone with quisk running?

Using 4.1.12.

73
Larry
KB3CUF

2391. Re: Quisk

Yahoo group: UHFSDR
Date: 2017-12-20 13:21:46 UTC
From: wr3ichgaxgujzxc4xrtrdpsyfntna4dk62d2hiuq@...
Topic: 2390 Message: 2391

I found the script from Sid Boyce via KC7NOA that uses usbsoftrock to change the multiplier to 2. I also modified the settings to SI570 direct control=False.

It holds through reboots, and seems to be on frequency after a calibration using usbsoftrock.

Ubuntu Mate, Quisk 4.1.12, Startech (VIA) USB sound card, builtin sound card for speaker and Mic.
On an Intel Atom 1.6 GHz 1 GB ram, 60 GB SSD single board computer (thinterm style)

Now getting 3.2V PtP into 50 Ohms at 144 mHz transmit.

Harmonic reduction is the next step.

73
Larry
KB3CUF

2392. Re: [UHFSDR] Re: Quisk

Yahoo group: UHFSDR
Date: 2017-12-20 19:39:21 UTC
From: MIKE DURKIN
Topic: 2390 Message: 2392

No problem I'm need to get myself a Class A Si570 again

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_____
From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of wr3ichgaxgujzxc4xrtrdpsyfntna4dk62d2hiuq@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Wednesday, December 20, 2017 5:21:46 AM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Re: Quisk

I found the script from Sid Boyce via KC7NOA that uses usbsoftrock to change the multiplier to 2. I also modified the settings to SI570 direct control=False.

It holds through reboots, and seems to be on frequency after a calibration using usbsoftrock.

Ubuntu Mate, Quisk 4.1.12, Startech (VIA) USB sound card, builtin sound card for speaker and Mic.
On an Intel Atom 1.6 GHz 1 GB ram, 60 GB SSD single board computer (thinterm style)

Now getting 3.2V PtP into 50 Ohms at 144 mHz transmit.

Harmonic reduction is the next step.

73
Larry
KB3CUF

2393. UHFSDR output mmic

Yahoo group: UHFSDR
Date: 2017-12-22 02:04:40 UTC
From: wr3ichgaxgujzxc4xrtrdpsyfntna4dk62d2hiuq@...
Topic: 2393 Message: 2393

Touchy little critters. I've damaged or blown 2 of the darn things. One open circut, and 1 from what seems to be a ratty bench supply. RadioShack switcher 13.6V 15A, and things were great until I connected to it instead of the 12V linear China special.

Mouser still has 10 HMC 482 but both it and the sub are discontinued. I bought 5 and glad I did. Went from oscillations whenever power applied to a real radio transmitter by replacing that part again. Cleanish with 2nd harmonic -30, 3rd -15. BPF for 144 Mhz is incoming. Its for an IF rig as part of a 1296 radio.

Has anyone else had this kind of fragie behavior?

73
Larry
KB3CUF

2394. Re: [UHFSDR] UHFSDR output mmic

Yahoo group: UHFSDR
Date: 2017-12-22 02:22:01 UTC
From: Jim Sanford
Topic: 2393 Message: 2394

Larry:

I'm a bit confused: Does Mouser still have the devices, or have they discontinued carrying them? If they still have, and since you recently purchased, can you share the Mouser p/n?

Thanks & 73,

Jim

wb4gcs@...

On 12/21/2017 9:04 PM,
wr3ichgaxgujzxc4xrtrdpsyfntna4dk62d2hiuq@... [UHFSDR] wrote:
>
> Touchy little critters. I've damaged or blown 2 of the darn things.
> One open circut, and 1 from what seems to be a ratty bench supply.
> RadioShack switcher 13.6V 15A, and things were great until I connected
> to it instead of the 12V linear China special.
>
>
> Mouser still has 10 HMC 482 but both it and the sub are discontinued.
> I bought 5 and glad I did. Went from oscillations whenever power
> applied to a real radio transmitter by replacing that part again.
> Cleanish with 2nd harmonic -30, 3rd -15. BPF for 144 Mhz is incoming.
> Its for an IF rig as part of a 1296 radio.
>
>
> Has anyone else had this kind of fragie behavior?
>
>
> 73
>
> Larry
>
> KB3CUF
>
>

This email has been checked for viruses by Avast antivirus software.
https://www.avast.com/antivirus

2395. Re: [UHFSDR] UHFSDR output mmic

Yahoo group: UHFSDR
Date: 2017-12-22 02:41:30 UTC
From: wr3ichgaxgujzxc4xrtrdpsyfntna4dk62d2hiuq@...
Topic: 2393 Message: 2395

I bought 5 of the 15 in stock of hmc482. 584-hmc482st89etr

Larry

2396. Re: [UHFSDR] UHFSDR output mmic

Yahoo group: UHFSDR
Date: 2017-12-22 02:43:13 UTC
From: wr3ichgaxgujzxc4xrtrdpsyfntna4dk62d2hiuq@...
Topic: 2393 Message: 2396

Everyone seems to have discontinued thrm. Except ebay and i dont trus that source. Minicircuits has a part but lower gain.

2397. External LO

Yahoo group: UHFSDR
Date: 2018-01-04 12:58:31 UTC
From: Hans
Topic: 2397 Message: 2397

I am working on using an external oscillator input via the SMA connector and transformer.

Using twisted pair to do the interconnections between the test points. Will 100 ohm twisted pair from cat5e cable be fine?

Are the resistors R46,R47,R48,R49 used?

What value do I use for R45?

Do I use capacitors for C59 and C60?

2398. Re: [UHFSDR] External LO

Yahoo group: UHFSDR
Date: 2018-01-04 20:54:01 UTC
From: Dave
Topic: 2397 Message: 2398

Hans:
? R46. R47, R48, and R49 are needed to bias the inputs of the flip flops.? Capacitors are needed for C59 and C60.

Dave - WB6DHW
<http://wb6dhw.com>

On 1/4/2018 4:58 AM, Hans highforest@... [UHFSDR] wrote:
>
> I am working on using an external oscillator input via the SMA
> connector and transformer.
>
> Using twisted pair to do the interconnections between the test?points.
> Will 100 ohm twisted pair from cat5e cable be fine?
>
>
> Are the resistors R46,R47,R48,R49 used?
>
>
> What value do I use for R45?
>
>
> Do I use capacitors for C59 and?C60?
>
>

2399. External LO

Yahoo group: UHFSDR
Date: 2018-01-10 10:02:22 UTC
From: Hans
Topic: 2397 Message: 2399

The idea is to use the external Oscillator Connection (J5)
looking at UHF_SDR2.sch
J5 goes to T2 (TC1-1-13M), TP6 connects to TP9 and TP7 connects to TP8,
The words 'Twisted Pair' are next to TP7
On page 6, I am not sure of the values to use.
The impedance range or construction isn't shown.
The circuit diagram has
LVDS Si570:
Use values shown

and

PECL Si570:
R45 = OPEN
R46, R48 = 82
R47, R49 = 130
C59, C60 = 0 ohm

The circuit has no information that I have seen on what to use for 50 ohm transformer input.
I am wondering if R45 would need to be 50 ohms?

in http://wb6dhw.com/UHF-SDR/UHF_SDR%20Assembly%20Manual-with%20SV1OBT%20suggestions.doc
I don't see information for constructing using an external LO, except to skip a section.

2400. Re: [UHFSDR] External LO

Yahoo group: UHFSDR
Date: 2018-01-10 20:15:34 UTC
From: Dave
Topic: 2397 Message: 2400

Hans:
? Connect TP6 to TP9 and TP7 to TP8.? Twist the two wires together to form a twisted pair.
R45 should be open.? R46 and R48 are 82 ohm.? R47 and R49 are 130 ohm.?
C59 and C60 are capacitors - ceramic .001 to .1uFd.

Dave - WB6DHW
<http://wb6dhhw.com>

On 1/10/2018 2:02 AM, Hans highforest@... [UHFSDR] wrote:
>
> The idea is to use the external Oscillator Connection (J5)
> looking at UHF_SDR2.sch
> J5 goes to T2 (TC1-1-13M), TP6 connects to TP9 and TP7 connects to TP8,
> The words 'Twisted Pair' are next to TP7
> On page 6, I am not sure of the values to use.
> The impedance range or construction isn't shown.
> The circuit diagram has
> LVDS Si570:
> Use values shown
>
> and
>
> PECL Si570:
> R45 = OPEN
> R46, R48 = 82
> R47, R49 = 130
> C59, C60 = 0 ohm
>
> The circuit has no information that I have seen on what to use for 50
> ohm transformer input.
> I am wondering if R45 would need to be 50 ohms?
>
> in
> http://wb6dhw.com/UHF-SDR/UHF_SDR%20Assembly%20Manual-with%20SV1OBT%20suggestions.doc
> I don't see information for constructing using an external LO, except
> to skip a section.
>
>
>

2401. Si570 class A

Yahoo group: UHFSDR
Date: 2018-01-22 17:07:56 UTC
From: MIKE DURKIN
Topic: 2401 Message: 2401

I'm still somewhat interested in buying a si570 Class A

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2402. Re: [UHFSDR] Si570 class A

Yahoo group: UHFSDR
Date: 2018-01-23 00:56:08 UTC
From: Dave
Topic: 2401 Message: 2402

Mike:
? I just tried to order a sample for Silabs.? The button to order a sample seems active, but doesn't do anything.? Never went to the cart.? I was able to order a sample of a Si5341A and it went to the cart.? i did get the email with the created part number for the Si570 and a link to order a sample from their reps.

Dave - WB6DHW
<http://wb6dhw.com>

On 1/22/2018 9:07 AM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>
> I'm still somewhat interested in buying a si570 Class A
>
> Get Outlook for Android <https://aka.ms/ghei36>
>
>

2403. Re: [UHFSDR] Si570 class A

Yahoo group: UHFSDR
Date: 2018-01-24 02:02:34 UTC
From: MIKE DURKIN
Topic: 2401 Message: 2403

Yea ... mine still show in cart ...

I just want lvds class A again like what i had in there before

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From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of Dave dave@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Monday, January 22, 2018 4:56:08 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Si570 class A

Mike:
I just tried to order a sample for Silabs. The button to order a sample seems active, but doesn't do anything. Never went to the cart. I was able to order a sample of a Si5341A and it went to the cart. i did get the email with the created part number for the Si570 and a link to order a sample from their reps.

Dave - WB6DHW
<http://wb6dhw.com><http://wb6dhw.com>

On 1/22/2018 9:07 AM, MIKE DURKIN Patriot121@...<mailto:Patriot121@...> [UHFSDR] wrote:

I'm still somewhat interested in buying a si570 Class A

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2404. Re: [UHFSDR] Si570 class A

Yahoo group: UHFSDR
Date: 2018-01-29 23:58:43 UTC
From: ed.murphy31@...
Topic: 2401 Message: 2404

Hi Guys,
The best way to get these parts is to order them from Silicon Labs. Yes, buy them !
After all, once you have received a free sample of their parts, as you have done in the past, you know what they can do. Thereafter if you need more it is best that you order them. Please do not abuse their service.
You will destroy it for others.
When I request samples on a professional basis, I do a comprehensive test of the parts.
Then I decide if the parts are suitable for my appilication.
Thereafter, I do the honorable thing and purchase their product.

Support these companies !

Please do not be freeloaders!

I shall be placing orders to many thousands of dollars to Si Labs. I can only hope that you will do the same and support them.

Regards
Ed Murphy

GM3SBC

2405. Si570

Yahoo group: UHFSDR
Date: 2018-02-10 16:51:57 UTC
From: MIKE DURKIN
Topic: 170 Message: 2405

I think I'll just buy it from siliconlabs ...

What is the part number for the Class A LVDS .... I think that's the one silver fox normally kitted that i had bought before

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2406. Re: [UHFSDR] Si570

Yahoo group: UHFSDR
Date: 2018-02-10 20:11:32 UTC
From: Dave
Topic: 170 Message: 2406

Mike:
? If you customize a device on their website, you just select LVDS from the drip down menu.? The first digit after the Si570 will be a B for 3.3V LVDS and High output enable.? The next letter is the stability.? The 3rd letter is the speed grade(A, B, or C).? The digits after the three letters depend on your startup frequency.
? Your other Si570 may not be dead.? When working on a front panel which has 2 Si570's(different I2C addresses), I left off the supply bypass cap.? The I2C sequence locked up the nano and kept the Si570 output off.? Last night, I had the same problem because I had a 16 bit I2C expander that didn't have a supply bypass very near it.? I added a 0.1 cap near the supply pins and the Si570 now works as advertised.? Note, I was careful to include the 0.1 uF bypass near the Si570 supply pins on the UHFSDR.

Dave - WB6DHW
<http://wb6dhw.com>

On 2/10/2018 8:51 AM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>
>
> I think I'll just buy it from siliconlabs ...
>
> What is the part number for the Class A LVDS .... I think that's the
> one silver fox normally kitted that i had bought before
>
>
>
>
> Get Outlook for Android <https://aka.ms/ghei36>
>
>

2407. Re: [UHFSDR] Si570

Yahoo group: UHFSDR
Date: 2018-02-10 20:13:37 UTC
From: Dave
Topic: 170 Message: 2407

Mike:
? I forgot to mention, the 7ppm version uses a different set of registers for the programming, so requires the latest control program.

Dave - WB6DHW

On 2/10/2018 8:51 AM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>
>
> I think I'll just buy it from siliconlabs ...
>
> What is the part number for the Class A LVDS .... I think that's the
> one silver fox normally kitted that i had bought before
>
>
>
>
> Get Outlook for Android <https://aka.ms/ghei36>
>
>

2408. Re: [UHFSDR] Si570

Yahoo group: UHFSDR
Date: 2018-02-10 22:38:24 UTC
From: MIKE DURKIN
Topic: 170 Message: 2408

I can't seem to find the customization page using my phone

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_____
From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of Dave dave@wb6dhw.com [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Saturday, February 10, 2018 12:13:37 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Si570

Mike:
I forgot to mention, the 7ppm version uses a different set of registers for the programming, so requires the latest control program.

Dave - WB6DHW

On 2/10/2018 8:51 AM, MIKE DURKIN Patriot121@...<mailto:Patriot121@msn.com> [UHFSDR] wrote:

I think I'll just buy it from siliconlabs ...

What is the part number for the Class A LVDS .... I think that's the one silver fox normally kitted that i had bought before

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2409. Re: [UHFSDR] Si570

Yahoo group: UHFSDR
Date: 2018-02-11 02:02:07 UTC
From: Dave
Topic: 170 Message: 2409

Mike:
? The Silabs site isn't easy to navigate. You configure a Si570 at
<https://www.silabs.com/TimingUtility/oscillator-part-configure.aspx?partnumber=Si570>

Dave - WB6DHW

On 2/10/2018 2:38 PM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>
> I can't seem to find the customization page using my phone
>
> Get Outlook for Android <https://aka.ms/ghei36>
>
> ---
> *From:* UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of
> Dave dave@... [UHFSDR] <UHFSDR@yahoogroups.com>
> *Sent:* Saturday, February 10, 2018 12:13:37 PM
> *To:* UHFSDR@yahoogroups.com
> *Subject:* Re: [UHFSDR] Si570
> Mike:
> ? I forgot to mention, the 7ppm version uses a different set of
> registers for the programming, so requires the latest control program.
>
> Dave - WB6DHW
>
> On 2/10/2018 8:51 AM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>>
>> I think I'll just buy it from siliconlabs ...
>>
>> What is the part number for the Class A LVDS .... I think that's the
>> one silver fox normally kitted that i had bought before
>>
>>
>>
>>
>> Get Outlook for Android <https://aka.ms/ghei36>
>>
>
>

2410. Re: [UHFSDR] Si570

Yahoo group: UHFSDR
Date: 2018-02-11 17:34:42 UTC
From: MIKE DURKIN
Topic: 170 Message: 2410

Cant get the section

Annual Volume Estimate*:

To drop down ....

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From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of Dave dave@wb6dhw.com [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Saturday, February 10, 2018 6:02:07 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Si570

Mike:
The Silabs site isn't easy to navigate. You configure a Si570 at <https://www.silabs.com/TimingUtility/oscillator-part-configure.aspx?partnumber=Si570><https://www.silabs.com/TimingUtility/oscillator-part-configure.aspx?partnumber=Si570>

Dave - WB6DHW

On 2/10/2018 2:38 PM, MIKE DURKIN Patriot121@...<mailto:Patriot121@...> [UHFSDR] wrote:

I can't seem to find the customization page using my phone

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From: UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com> <UHFSDR@yahoogroups.com><mailto:UHFSDR@yahoogroups.com> on behalf of Dave dave@...<mailto:dave@...> [UHFSDR] <UHFSDR@yahoogroups.com><mailto:UHFSDR@yahoogroups.com>
Sent: Saturday, February 10, 2018 12:13:37 PM
To: UHFSDR@yahoogroups.com<mailto:UHFSDR@yahoogroups.com>
Subject: Re: [UHFSDR] Si570

Mike:
I forgot to mention, the 7ppm version uses a different set of registers for the programming, so requires the latest control program.

Dave - WB6DHW

On 2/10/2018 8:51 AM, MIKE DURKIN Patriot121@...<mailto:Patriot121@...> [UHFSDR] wrote:

I think I'll just buy it from siliconlabs ...

What is the part number for the Class A LVDS .... I think that's the one silver fox normally kitted that i had bought before

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2411. 回覆：Re: [UHFSDR] Si570

Yahoo group: UHFSDR
Date: 2018-02-12 04:08:08 UTC
From: 德榮 馮
Topic: 170 Message: 2411

Hi Mike,
Can you try from a PC browser ? Browser on mobile phone just do not support drop down box.
傳送自 Android 上的 Yahoo Mail

在 2018 年 2月 月 12 日 週一，時間： 1:36，MIKE DURKIN Patriot121@... [UHFSDR]<UHFSDR@yahoogroups.com>寫道：

Cant get the section

Annual Volume Estimate*:

To drop down ....

Get Outlook for Android
From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of Dave dave@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Saturday, February 10, 2018 6:02:07 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Si570

Mike:
  The Silabs site isn't easy to navigate. You configure a Si570 at <https://www.silabs.com/TimingUtility/oscillator-part-configure.aspx?partnumber=Si570>

Dave - WB6DHW

On 2/10/2018 2:38 PM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:

I can't seem to find the customization page using my phone

Get Outlook for Android
From:UHFSDR@yahoogroups.com<UHFSDR@yahoogroups.com> on behalf of Davedave@... [UHFSDR]<UHFSDR@yahoogroups.com>
Sent: Saturday, February 10, 2018 12:13:37 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Si570 Mike:
  I forgot to mention, the 7ppm version uses a different set of registers for the programming, so requires the latest control program.

Dave - WB6DHW

On 2/10/2018 8:51 AM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:

I think I'll just buy it from siliconlabs ...

What is the part number for the Class A LVDS .... I think that's the one silver fox normally kitted that i had bought before

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2412. Re: [UHFSDR] Si570

Yahoo group: UHFSDR
Date: 2018-02-13 11:10:09 UTC
From: g.suggate@...
Topic: 170 Message: 2412

Dave,

I have a Si570 (AAAOOO1126) and would like to control it from an Arduino Nano. Can you please point me
to a sketch which would be suitable.

73 and TIA

Geoff G3NPI Buckingham

2413. Re: [UHFSDR] Si570

Yahoo group: UHFSDR
Date: 2018-02-13 22:37:49 UTC
From: Dave
Topic: 170 Message: 2413

Geoff:
  I think I used the sketch from KO7M which is at
<https://github.com/ko7m/Si570>

Dave - WB6DHW
<http://wb6dhw.com>

On 2/13/2018 3:10 AM, g.suggate@... [UHFSDR] wrote:
>
> Dave,
>
> I have a Si570 (AAAOOO1126) and would like to control it from an
> Arduino Nano. Can you please point me
> to a sketch which would be suitable.
>
> 73 and TIA
>
> Geoff G3NPI Buckingham
>
>

2414. Re: [UHFSDR] Si570

Yahoo group: UHFSDR
Date: 2018-02-14 10:13:48 UTC
From: g.suggate@...
Topic: 170 Message: 2414

Many thanks for the quick reply Dave.

73

Geoff G3NPI

2415. Fwd: Re: [UHFSDR] Si570 class A

Yahoo group: UHFSDR
Date: 2018-02-15 04:26:15 UTC
From: MIKE DURKIN
Topic: 2415 Message: 2415

Opss

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_____
From: MIKE DURKIN <patriot121@...>
Sent: Wednesday, February 14, 2018 8:25:30 PM
To: MIKE DURKIN
Subject: Re: [UHFSDR] Si570 class A

I cant seem to get the customise part button to work .... i dint care for a sample ... i just want an LVDS 1.4ghz Si570 darn it

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_____
From: MIKE DURKIN <patriot121@...>
Sent: Tuesday, January 23, 2018 6:02:34 PM
To: uhfsdr@yahoogroups.com
Subject: Re: [UHFSDR] Si570 class A

Yea ... mine still show in cart ...

I just want lvds class A again like what i had in there before

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_____
From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of Dave dave@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Monday, January 22, 2018 4:56:08 PM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Si570 class A

Mike:
I just tried to order a sample for Silabs. The button to order a sample seems active, but doesn't do anything. Never went to the cart. I was able to order a sample of a Si5341A and it went to the cart. i did get the email with the created part number for the Si570 and a link to order a sample from their reps.

Dave - WB6DHW
<http://wb6dhw.com><http://wb6dhw.com>

On 1/22/2018 9:07 AM, MIKE DURKIN Patriot121@...<mailto:Patriot121@...> [UHFSDR] wrote:

I'm still somewhat interested in buying a si570 Class A

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2416. Si570

Yahoo group: UHFSDR
Date: 2018-02-18 20:47:51 UTC
From: MIKE DURKIN
Topic: 170 Message: 2416

I decided to buy a sSi570BAB from Mouser ....
Hope its top end is above 890Mhz

Let you all know how it goes once it gets here

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2417. Re: Si570

Yahoo group: UHFSDR
Date: 2018-02-19 19:40:35 UTC
From: MIKE DURKIN
Topic: 170 Message: 2417

Opsss .... meant to get the Si570BCB ... not the BAB ... oh well , we will see how bad the drift really is ...

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From: MIKE DURKIN <patriot121@msn.com>
Sent: Sunday, February 18, 2018 12:47:51 PM
To: UHFSDR UHFSDR
Subject: Si570

I decided to buy a sSi570BAB from Mouser ....
Hope its top end is above 890Mhz

Let you all know how it goes once it gets here

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2418. Si 570 Ultra High Stability Product.

Yahoo group: UHFSDR
Date: 2018-02-21 16:14:37 UTC
From: ed.murphy31@...
Topic: 2418 Message: 2418

Hello Mike,

A heads up !

You may be interested in a new product that we shall be introducing soon which shall provide the capability of Ultra High Stability of the Si 570, even in very harsh thermal environments.

This product has been specifically designed for the Si 570. It is a computer controlled frequency stabilizer the size of a postage stamp.

Probably for the very first time, the Si 570 with its very fine Frequency Resolution capability, can now provide a typical Frequency Stability of 0.012 ppm. . . . . .That is not a misprint: 0.012 ppm ! and we hope to have further improvement beyond this level.

The above stability performance is currently being demonstrated using Grade 'B' Si 570 parts under a harsh thermal environment while operating with RX / TX sequencing and applying a power delta of 40 Watts dissipation within the main equipment enclosure.

The product has been designed with the UHFSDR and many other current projects in mind. It can be quickly fitted to the UHFSDR PCB via a supplied micro miniature Interface PCB.

This project has been active for over 8 months and we are now at the Qualification testing stage.

The product announcement shall be made soon where cost and availability shall be listed.

Mike, should you or any others here be interested in the product, we would very much appreciate if they could register their interest by contacting myself by email via QRZ.com or . . . . (preferred) >>. . . . www(dot)scottie-sdr(dot)co(dot)uk http://www.scottie-sdr.co.uk

This would be most helpful in sizing our first production batch of units and also potentially allow us to reduce costs.

Digital Modes, now at a whole new performance level ! along with excellent CW and SSB.

Best Regards

Ed Murphy (GM3SBC)
on behalf of The Scottie Team.

2419. Re: [UHFSDR] Si 570 Ultra High Stability Product.

Yahoo group: UHFSDR
Date: 2018-02-22 02:26:06 UTC
From: MIKE DURKIN
Topic: 2418 Message: 2419

Always depends on how much

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_____
From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of ed.murphy31@...
[UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Wednesday, February 21, 2018 8:14:37 AM
To: UHFSDR@yahoogroups.com
Subject: [UHFSDR] Si 570 Ultra High Stability Product.

Hello Mike,

A heads up !

You may be interested in a new product that we shall be introducing soon which shall provide the capability of Ultra High Stability of the Si 570, even in very harsh thermal environments.

This product has been specifically designed for the Si 570. It is a computer controlled frequency stabilizer the size of a postage stamp.

Probably for the very first time, the Si 570 with its very fine Frequency Resolution capability, can now provide a typical Frequency Stability of 0.012 ppm. . . . . .That is not a misprint: 0.012 ppm ! and we hope to have further improvement beyond this level.

The above stability performance is currently being demonstrated using Grade 'B' Si 570 parts under a harsh thermal environment while operating with RX / TX sequencing and applying a power delta of 40 Watts dissipation within the main equipment enclosure.

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Mike, should you or any others here be interested in the product, we would very much appreciate if they could register their interest by contacting myself by email

via QRZ.com or . . . . (preferred) >>. . . .
www(dot)scottie-sdr(dot)co(dot)uk<http://www.scottie-sdr.co.uk>

This would be most helpful in sizing our first production batch of units and also potentially allow us to reduce costs.

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Best Regards

Ed Murphy (GM3SBC)

on behalf of The Scottie Team.

2420. Imbal

Yahoo group: UHFSDR
Date: 2018-03-01 17:50:37 UTC
From: MIKE DURKIN
Topic: 2420 Message: 2420

Subject: Imbalance

Is there anyway I can get replacement parts from the flip flops to the balance mixers maybe even the balance mixers I have an imbalance that I would like to try to balance out the si570 carrier. I'm wondering if one of my parts is out of tolerance or something

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2421. Re: [UHFSDR] Imbal

Yahoo group: UHFSDR
Date: 2018-03-02 10:25:16 UTC
From: Dave
Topic: 2420 Message: 2421

Mike:
? I do have the flip flops and the DBM's.? How much imbalance?? A problem in a flop flop or in a DBM would likely cause one channel not to be there. But, the loss in one DBM could be higher than the other DBM. If you have a scope, you can check that the LO signals are 90 degrees apart.? If the imbalance is smaller, the audio amp gain in one channel could be different than the other channel.

Dave - WB6DHW

On 3/1/2018 9:50 AM, MIKE DURKIN Patriot121@... [UHFSDR] wrote:
>
> Subject:?Imbalance
>
> Is there anyway I can get replacement parts from the flip flops to the
> balance mixers maybe even the balance mixers I have an imbalance that
> I would like to try to balance out the si570 carrier. I'm wondering if
> one of my parts is out of tolerance or something
>
>
>
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>
>

2422. Re: [UHFSDR] Imbal

Yahoo group: UHFSDR
Date: 2018-03-02 12:35:49 UTC
From: MIKE DURKIN
Topic: 2420 Message: 2422

I want to reduce/eliminate an imbalance in dbm or part values. I'm not really sure that the resistors can be checked on board.

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_____
From: UHFSDR@yahoogroups.com <UHFSDR@yahoogroups.com> on behalf of Dave dave@... [UHFSDR] <UHFSDR@yahoogroups.com>
Sent: Friday, March 2, 2018 2:25:16 AM
To: UHFSDR@yahoogroups.com
Subject: Re: [UHFSDR] Imbal

Mike:
I do have the flip flops and the DBM's. How much imbalance? A problem in a flop flop or in a DBM would likely cause one channel not to be there. But, the loss in one DBM could be higher than the other DBM. If you have a scope, you can check that the LO signals are 90 degrees apart. If the imbalance is smaller, the audio amp gain in one channel could be different than the other channel.

Dave - WB6DHW

On 3/1/2018 9:50 AM, MIKE DURKIN Patriot121@...<mailto:Patriot121@...> [UHFSDR] wrote:

Subject: Imbalance

Is there anyway I can get replacement parts from the flip flops to the balance mixers maybe even the balance mixers I have an imbalance that I would like to try to balance out the si570 carrier. I'm wondering if one of my parts is out of tolerance or something

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